

research HIGHLIGHTS



ISTANBUL
GELISIM
UNIVERSITY

2020 - 2023

FACULTY OF ENGINEERING AND ARCHITECTURE



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GENERAL INFORMATION

FACULTY OF ENGINEERING AND ARCHITECTURE



PREFACE

Prof. Dr. Necmettin MARAŞLI



Istanbul Gelisim University Faculty of Engineering and Architecture, which is among the leading foundation and private universities in Turkey, was established with the Law No. 6114 dated 17/02/2011. First of all, the number of departments in our faculty, which started its educational activities with 5 departments in the 2011-2012 academic year, has reached 8 with the opening of new departments. In our faculty, Computer, Industry, Mechatronics and Software Engineering departments provide education in Turkish, while Electrical and Electronics, Civil, Aircraft Engineering and Architecture departments offer two different programs in Turkish-English. Education and academic activities in the Faculty of Engineering and Architecture; It is carried out with experienced faculty members who are experts in their fields, who closely follow the current technological and scientific developments in the world and in our country. Equipped with theoretical knowledge as well as practical knowledge, our faculty has the mission of preparing our students for the future. It is our greatest pride that our young people who graduated from our faculty, which we aim to train students who can successfully work in joint projects with a team spirit, think analytically, and feel responsible for the society and the institution they work for, contribute to the engineering and architectural development of our country. We offer environments and activities for our young people who want to study in the engineering and architecture departments of our faculty, where they can develop new ideas, produce innovative projects, get to know different cultures, and enjoy education and training. We have full faith and confidence that when you graduate from our faculty, you will raise awareness in your environment and meet the future fully equipped. Best wishes for love and success

Prof. Dr. Necmettin Maraşlı
Dean of the Faculty of Engineering and Architecture



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Number of Students of Our Departments



483

COMPUTER
ENGINEERING



204

ELECTRICAL
ELECTRONICS
ENGINEERING



19

ELEKTRİK ELEKTRONİK
MÜHENDİSLİĞİ
İNGİLİZCE



183

CIVIL ENGINEERING



181

INDUSTRIAL
ENGINEERING



332

CIVIL ENGINEERING
ENGLISH



194

SOFTWARE
ENGINEERING



319

AERONAUTICAL
ENGINEERING



341

AERONAUTICAL
ENGINEERING
ENGLISH



267

ARCHITECTURE



569

ARCHITECTURE
ENGLISH



170

MECHATRONIC
ENGINEERING



ISTANBUL
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TOTAL

1301

GUEST
STUDENT



OUR ADMINISTRATIVE STAFF



DEAN
Prof. Dr.
NECMETTİN MARAŞLI



VICE DEAN
Dr. CANSU NOBERİ



VICE DEAN
Dr. SEDA ERBAYRAK

FACULTY SECRETARY
NİLGÜN YILDIZ

OFFICE STAFF
İLAYDA ŞULE KARABACAK

OFFICE STAFF
EFSA ELİF SAYGIN

OFFICE STAFF
SÜMEYYE ESER

OFFICE STAFF
SALIHA ŞIŞMAN

ABOUT US

HISTORY

The Faculty of Engineering and Architecture, which received its first students from Istanbul Gelişim University in the 2011-2012 academic year, has been continuing to train the scientists and engineers of Turkey with the same determination, dedication and success since the first day of its establishment. The faculty, which started with 5 departments, continues its education program with 12 departments today.

The main purpose of our faculty; To raise original individuals who are open to scientific and technological developments, self-confident, loyal to Atatürk's principles, able to think scientifically, contemporary and universally, have team consciousness and ethical values, have the ability to think critically, are sensitive to society and the environment, and look to the future with hope, determination and faith. is to always pursue our goals with the same determination. We show the same determination to become one of the respected and leading universities in Turkey, with the education model we apply at world standards and the values we take as a basis.

We consider it our duty to prepare our students not only for their profession, but also for life and the future, with our education programs that we implement by saying that it is much more than a school in order to be accepted in the national and international arena, and we continue to train our students successfully on this path. We not only provide theoretical knowledge to our students, but also reinforce the theoretical knowledge with practice through the technical infrastructures we use, application centers, cooperation with universities, industries and private institutions, and various opportunities we offer. With the competencies they have acquired and the awareness of lifelong learning, our students who graduate from our school fulfill their duties with great determination, equipped from the first moment they step into the business world. Our graduates have the opportunity to find jobs in many sectors, including public and private institutions, and in different positions, and they represent our country and our school in the international arena.

ABOUT US

OUR MISSION

Each of our students from the Faculty of Fine Arts of Istanbul Gelişim University is treated as an individual who has the principles and values of contemporary world art, thinks creatively and uniquely, acts with the spirit of leadership and produces works that shape the future, who has the knowledge and philosophy of the works they produce, and who has been brought up in Gelişim. Seeing change and development as an indispensable element of his life, reflecting while doing, making a difference with what he reflects, connected to science and technology, able to solve problems, adapting to teamwork, connected to the future with love and hope, extremely sensitive to society and its environment, analytical, critical, rational thinking is to raise qualified individuals who carry the flag of success even further with its structure and professional competencies.

OUR VISION

To be the leader of quality and professional education by moving away from the standard education approach and to maintain this success globally. To reject pure teaching and remove the barriers to original and creative thinking, and to make the Faculty of Fine Arts one of the respected and leading educational institutions in the national and international arena under the roof of Istanbul Gelişim University. Our education program, our collaborations with universities and institutions, our creative and impressive projects, our research areas and our studies both contribute to the development and change of our country and make our university popular. It is to create training opportunities in Gelişim, by creating a large network with all the work done, going beyond the borders drawn.



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research
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LABORATORIES
FACULTY OF ENGINEERING AND
ARCHITECTURE

Laboratories



Computer Laboratories

Electrical-Electronics Laboratory

Renewable Energy - Electronic Machinery and
Power Elements Laboratory

Communications and Microprocessors
Laboratory Industrial Automation Laboratory

Physics Laboratory

Ergonomics Laboratory

Building and Building Materials Laboratory

Hydraulics and Soil Mechanics Laboratory

Machining - Chipless Manufacturing Methods
Laboratory

Drawing Workshops



COMPUTER LABORATORIES



Computer laboratories are used for students to develop their computer skills in programming, design and organization.

ELECTRICAL-ELECTRONICS LABORATORY

Electrical and Electronics Laboratory; It is used for students to grasp basic electronics, circuit analysis, logical circuits knowledge practically.



RENEWABLE ENERGY-ELECTRONIC MACHINERY AND POWER ELEMENTS LABORATORY



Renewable Energy - Electronic Machinery and Power Elements Laboratory is used for students to grasp the knowledge of electrical machines, electrical facilities, and renewable energy systems practically.

COMMUNICATIONS AND MICROPROCESSORS LABORATORY



Microprocessors and Communication Laboratory is used for students to grasp the knowledge of microprocessors and communication practically.

INDUSTRIAL AUTOMATION LABORATORY

In the Automation and PLC Laboratory, there are Festo automation control devices and hydraulic and pneumatic systems. Our students can also design robots and drones and assemble the parts here.



PHYSICS LABORATORY



In the physics laboratory of the Faculty of Engineering and Architecture, courses are given to enable students to comprehend the laws and theories of physics on earth, and mechanical and electrical experiments are carried out.

ERGONOMICS LABORATORY



The Business Science Laboratory is one of the laboratories required for the experiments in the courses in which the classical methods and techniques of industrial engineering are explained.

Our Business Science Laboratory is a fully equipped laboratory where the most advanced devices and equipment related to Work Study and Ergonomics courses are provided and the applications of these courses are made, and is in a privileged position among all universities with its equipment and device capacity.

BUILDING AND BUILDING MATERIALS LABORATORY

Undergraduate, graduate and doctoral students benefit from the building and building materials laboratory, where some of the applied courses of the Civil Engineering Department are given. In the laboratory, where the basic building materials of constructions such as concrete, steel and plaster are examined, the chemicals used in the materials are examined, experimental studies and projects are carried out regarding the use and quality of the materials.



HYDRAULICS AND SOIL MECHANICS LABORATORY



Undergraduate, graduate and doctoral students benefit from the Hydraulics and Soil laboratory, where some of the applied courses of the Civil Engineering Department are given. At the undergraduate level, many experiments can be carried out for the practical understanding of Fluid Mechanics, Hydraulics, Hydrology and Soil Mechanics courses.

MACHINING - CHIPLESS MANUFACTURING METHODS LABORATORY



Machining - Chipless Manufacturing Methods Laboratory was established for students to practice machining and chipless production techniques. Inside, machine tools that make machining (shape and sanding stone bench, saw, column drill, table drill, radial drill), lathes, vertical milling machines. In addition, it consists of machine tools that make chipless production (guillotine shears, upkant bending machine) and welding machines.

ARCHITECTURE DRAWING WORKSHOPS

Architectural drawing workshops in our university are used especially in architectural education. In this workshop, students will carry out various design works in the company of experienced coordinators and will have the opportunity to present, exhibit and discuss their products during the presentation periods.





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GELISIM
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research
HIGHLIGHTS

GENERAL INFORMATION

FACULTY OF ENGINEERING AND
ARCHITECTURE
DEPARTMENTS



ISTANBUL
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UNIVERSITY

research
HIGHLIGHTS



**FACULTY OF ENGINEERING AND
ARCHITECTURE**

COMPUTER ENGINEERING

COMPUTER ENGINEERING

Prof. Dr. Abdulsamet HAŞILOĞLU HEAD OF COMPUTER ENGINEERING DEPARTMENT



Dear readers,

Technology forms the basis of the 21st century, which is defined as the information age... Rapidly developing technology shapes the future of the age, the transformation of life, the economy and individual life. At the center of this transformation is computer technology and of course; Computer Engineering.

The basis of the Computer Engineering program is to provide our students with engineering knowledge and skills in the analysis and design of both hardware and software systems. Program; It has been designed in such a way that our students can easily adapt to the rapidly developing technology in computer hardware, software and computer applications. The program also provides our students with the ability to contribute to the development of technology and develop new technologies.

In our department, we aim to share happiness with our expert faculty members and comprehensive laboratory facilities in order to prepare you for the future. We believe that we will have a successful, happy and peaceful education and training process at Istanbul Gelişim University in an environment that has been proven with its academic and social achievements. In addition, the fact that we are entitled to the United States-based ABET (Accreditation Board for Engineering and Technology) accreditation proves the high quality of education of our department and its success in meeting the standards set by this institution. Within the framework of this prestigious accreditation, our department works on continuous improvement and develops the processes and outputs in the department together with its stakeholders. The education and training of the Computer Engineering department is constantly being improved in line with the demands and suggestions of our students, internal and external stakeholders.

Our graduates who complete the Computer Engineering program can start their professional careers in important sectors of the economy with the analytical thinking skills they have developed during their education and university education.

All industries that develop or use computer systems in hardware and software areas offer job opportunities to our graduates. Electronics, telecommunications, information technologies, defense, space and aviation, manufacturing, automotive, robotics and game industries are among the top sectors that offer job opportunities to our graduates.

Many new professions such as data engineering and data security specializations are waiting for computer engineering graduates in the near future.

Istanbul Gelişim University Computer Engineering curriculum; While equipping students with the basic knowledge of computer technology, it prepares our students for the future as a program in which the developing technology is closely followed and the newest technologies are adapted as soon as possible. Our Computer Engineering department educates students who will shape the future, take an active role in the development of technology, and have the skills and abilities to lead.

Head of Computer Engineering Department
prof. Dr. Abdulsamet HASILOGLU

COMPUTER ENGINEERING

GENERAL INFORMATION



Computer engineering; It is a department that provides theoretical and practical education and training on computer hardware and software systems and applications, which are indispensable for the information age.

In the department where courses such as basic mathematics courses, computer hardware and software system analysis, and internet applications are given, graduates who can work in companies that use, design, develop and market computer systems in the public and private sectors, industry are given. Able to theoretically analyze, evaluate and interpret the subjects in the field of Computer Science, to apply scientific research methods and information technology applications effectively in their studies, to carry out adequate and competent studies in line with the theoretical knowledge gained in the field of Computer Science, To train students who can develop applications.

Our mission is to bring in individuals who can express their ideas in at least one foreign language in written and orally, are successful in problem solving, time management, resource management, work discipline and communication skills, have the ability to work individually, and have the ability to work in a team and take responsibility. To give graduates who have an inquiring attitude on the basis of scientific thinking by following scientific journals and publications, adopt the behavior of understanding, evaluating and participating in social events as a principle within the framework of universal values, adopting the requirements of lifelong learning philosophy, having a high level of awareness and civil courage.

COMPUTER ENGINEERING

PROGRAM EDUCATION GOALS



1. Gain disciplined reasoning, critical thinking and applied skills to identify, analyze and solve problems
2. Communicate effectively orally and in writing to express technical information, ideas and suggestions.
3. Considers the professional, ethical and social responsibility of engineering technology practices
4. Acts effectively, thinks independently and works collaboratively in a team environment in a membership or leadership role.
5. Actively participates in professional development, including continuous self-development and lifelong learning.

COMPUTER ENGINEERING

MISSION

To train engineers equipped with knowledge and skills in Computer Engineering and related disciplines, who can monitor and question new technologies and developments, develop new products, benefit the society, are sensitive to the environment, and respect human rights.



VISION

To be one of the leading departments in the fields of Computer and related engineering with its contributions to science and technology, competitive at national and international level.

OUR ACADEMIC STAFF



Prof. Dr.
Abdulsamet HAŞILOĞLU
Ph.D. Marmara University



Dr. Mustafa ŞENOL
Ph.D. Istanbul Technical University



Dr. Ferhat KÜRÜZ
Ph.D. Yıldız Technical University



Dr. Gülsüm Yeliz ŞENTÜRK
Ph.D. Yıldız Technical University



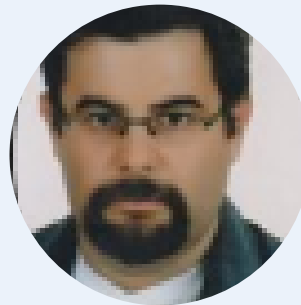
Dr. Mustafa TUNAY
Ph.D. Near East University



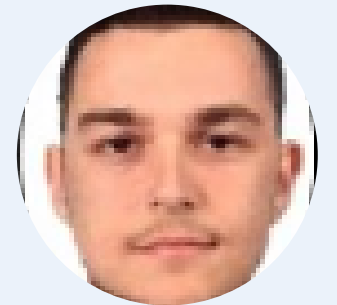
Dr. Seda Yamaç AKBIYIK
Ph.D. Yıldız Technical University



Dr. Ümit ALKAN
Ph.D. Yıldız Technical University



RES.ASSIST. Mehmet Ali BARIŞKAN



RES. ASSIST. Muhammet
Mustafa YURDAKUL

COMPUTER ENGINEERING

UNDERGRADUATE PROGRAM

Computer Engineering Department provides education in Turkish. Our curriculum has been prepared in accordance with the ECTS system and is accredited by ABET and consists of 8 semesters. The curriculum includes basic science courses, departmental courses, departmental elective courses, social elective courses and non-departmental elective courses, as well as 2 compulsory summer internships. Along with the compulsory courses, the students are provided with basic information about the profession, while the elective courses are aimed at taking the courses related to the interests of the students. Istanbul Gelisim University Computer Engineering Department received its first students in the 2011-2012 academic year. It gave its first graduates in the 2014-2015 academic year.

COMPUTER ENGINEERING

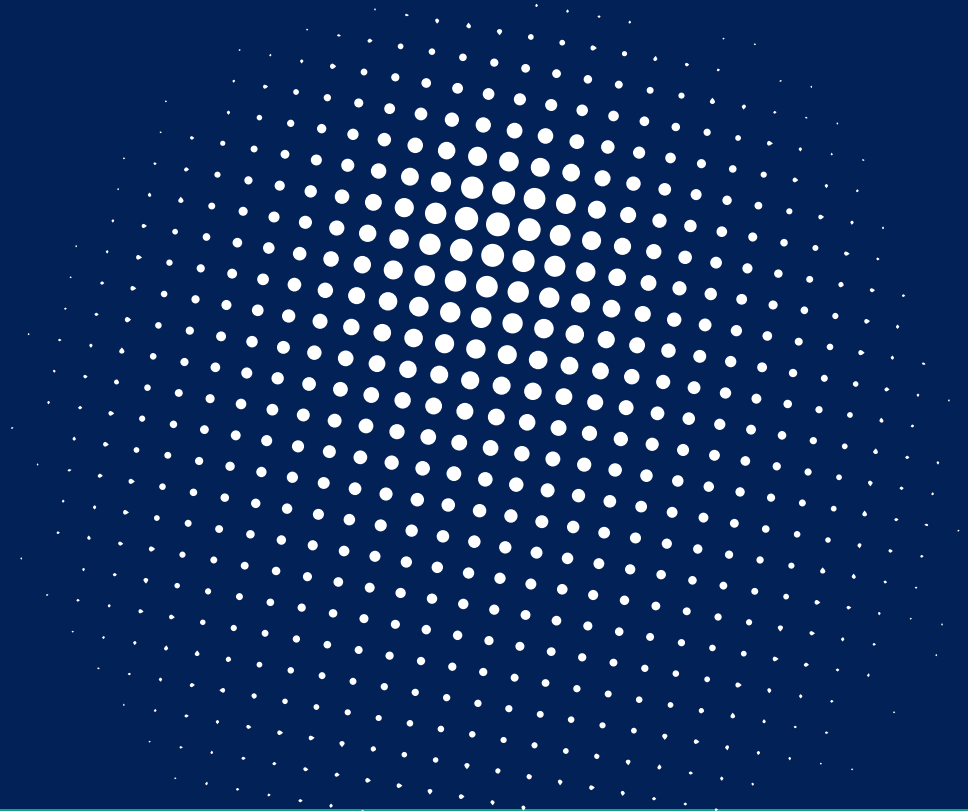
MASTER PROGRAM

Computer engineering; It is a department that provides theoretical and practical education and training on computer hardware and software systems and applications, which are indispensable for the information age. In the department, where courses such as advanced computer hardware and advanced software system analysis are given, graduates who can work in companies that use, design, develop and market computer systems in the public and private sectors, industry are given.



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**ACADEMIC CV
AND
SCIENTIFIC STUDIES**

COMPUTER ENGINEERING



Prof. Dr. Abdulsamet HAŞILOĞLU

Background

Prof. Dr. Abdulsamet HAŞILOĞLU received his bachelor degree from Karadeniz Technical University in 1978, his master degree from Atatürk University in 1994 and his doctorate degree from Marmara University in 1998. He is the Head of the Department of Computer Engineering at Istanbul Gelişim University.

Communication

 ahasiloglu@gelisim.edu.tr

Research Areas:

Artificial Neural Networks

Nuclear Medicine

Robotics

Artificial Intelligence

Cloud Informatics

Computer Networks

Mobile Programming

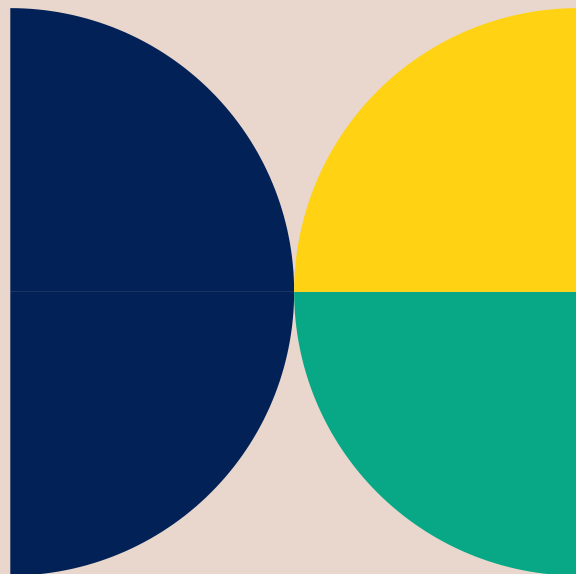
Areas of Expertise:

Artificial Neural Networks

Computer Engineering

Publications

2021 2021, ET IMAGE PROCESSING, robust sperm cell tracking algorithm using uneven lighting image fixing and improved branch and bound algorithm.



COMPUTER ENGINEERING



Dr.
Mustafa ŞENOL

Background

Dr. Mustafa Şenol received his bachelor degree from the Turkish Military Academy in 1981, his master degree from the Turkish Military Academy in 1996 and his doctorate from Istanbul Technical University in 2020. He works as the Deputy Head of the Department of Computer Engineering at Istanbul Gelişim University. In addition, as a faculty member in the Department of Computer Engineering, he teaches Informatics Ethics and Law, Cyber Security Management and Audit, Cyber Security Laws and Policies, Cloud Computing Security Fundamentals and Forensic Informatics Fundamentals.

Communication

 msenol@gelisim.edu.tr

Research Areas:

Cyber Security

IT Ethics and Law

Cloud computing

Computer Networks

Information Security Management

Cyber Security Management

Areas of Expertise:

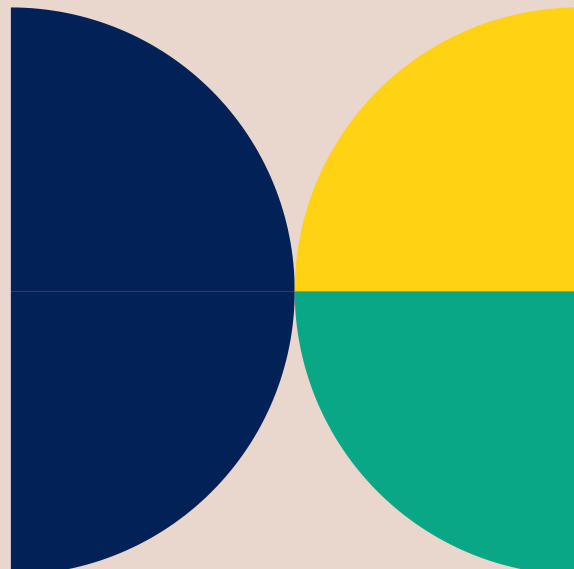
Cyber Security Management

Computer Engineering

Publications

2022

- M. Senol, "Cyber Security and Defense: Proactive Defense and Deterrence," 3rd International Informatics and Software Engineering Conference, IISEC 2022 , Ankara, Turkey, 2022
- M. Senol, "Brain Computer Interaction and Cybersecurity of the Brain Beyin Bilgisayar Etkilesimi ve Beynin Siber Guvenligi," 7th International Conference on Computer Science and Engineering, UBMK 2022 , Diyarbakir, Turkey, pp.25-30, 2022



COMPUTER ENGINEERING




Dr. Ferhat KÜRÜZ

Background

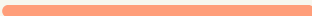
Dr. Ferhat Kürüz received his bachelor degree from Yıldız Technical University in 2010, his master's degree from Yıldız Technical University in 2012, and his doctorate degree from Yıldız Technical University in 2018. He teaches Mathematics II, Differential Equations, and Linear Algebra as a lecturer at Istanbul Gelisim University Computer Engineering Department.

Communication

 fkuruz@gelisim.edu.tr

Research Areas:

Mathematics




Areas of Expertise:

Mathematics



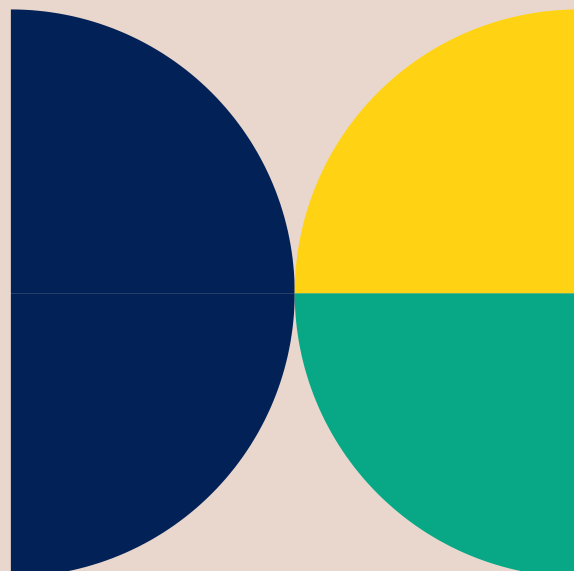
Computer Engineering



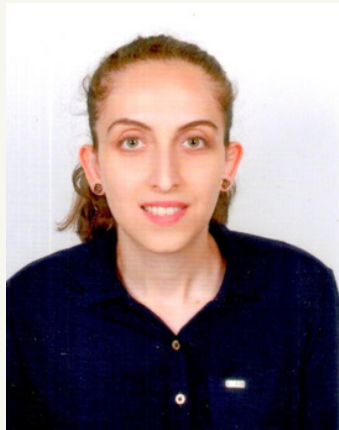
Publications

2022

- Ferhat Kürüz, Ali Dağdeviren, Pell and Pell-Lucas Hybrid Quaternions, Filomat (Volume 37, No 25), 2022
- Ferhat Kürüz, Ali Dağdeviren, Matrices with Hyperbolic Number Entries, Turkish Journal of Mathematics and Computer Science (Volume 14, Issue 2, 306 - 313), 2022



COMPUTER ENGINEERING



Dr. Gülsüm Yeliz ŞENTÜRK

Background

Dr. Gülsüm Yeliz ŞENTÜRK received her BA from Yıldız Technical University in 2011, her MA from Yıldız Technical University in 2013 and her PhD from Yıldız Technical University in 2019. He is a faculty member at Istanbul Gelisim University Computer Engineering Department and teaches Mathematics I, Mathematics II, Differential Equations, Numerical Analysis, Linear Algebra and Advanced Mathematics courses at the Faculty of Engineering and Architecture and Advanced Engineering Mathematics at the Graduate Education Institute.

Communication

 gysenturk@gelisim.edu.tr

Research Areas:

Mathematics

Areas of Expertise:

Mathematics

Computer Engineering

Publications

- 2022
- N. Gürses And G. Y. Şentürk, "Similarity Relations and Exponential of Dual-Generalized Complex Matrices (in press)," ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA, SERIA MATEMATICA , vol.0, 2023
 - N. Gürses And G. Y. Şentürk, "Matrix Theory over DGC Numbers ," JOURNAL OF SCIENCE AND ARTS , vol.23, no.1, pp.209-228, 2023
 - G. Y. Şentürk Et Al. , "New Insight into Quaternions and Their Matrices,"Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics , vol.72, no.1, pp.43-58, 2023
 - G. Y.ŞENTÜRK And N. GÜRSES, "Dual Quaternion Theory over HGC numbers (in press)," JOURNAL OF DISCRETE MATHEMATICAL SCIENCES AND CRYPTOGRAPHY , 2023
 - G. Y. ŞENTÜRK Et Al. , "Algebraic Construction for Dual Quaternions with GCN,"Bitlis Eren Üniversitesi Fen Bilimleri Dergisi , vol.11, no.2, pp.586-593, 2022
 - N. GÜRSES Et Al. , "A Comprehensive Survey of Dual-Generalized Complex Fibonacci and Lucas Numbers," SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES , vol.40, no.1, pp.179-187, 2022
 - N. GÜRSES Et Al. , "Investigating Generalized Quaternions with Dual-Generalized Complex Numbers (online first)," MATHEMATICA BOHEMICA , 2022
 - G. Y. ŞENTÜRK Et Al. , "Construction of Dual-Generalized Complex Fibonacci and Lucas Quaternions," CARPATHIAN MATHEMATICAL PUBLICATIONS , vol.14, no.2, pp.406-418, 2022

Projects

- 2022
- **Bileşenleri Dual-Genelleştirilmiş Kompleks Leonardo Sayıları olan Dual Kuaterniyonların Araştırılması**
Coordinator: Yılmaz Ç. Y. Advisor: Şentürk G. Y. TÜBİTAK 2209-A University Students Research Projects Support Program
 - **Dual-Genelleştirilmiş Kompleks Katsayılı Matrisler**
Coordinator: Gürses N.. Researcher: Şentürk G. Y., Yıldız Technical University Scientific Research Projects (YTÜ-BAP), Higher Education Institutions Supported Project
 - **Hiperbolik-Genelleştirilmiş Kompleks Katsayılı Fibonacci-Lucas Sayıları ve Kuaterniyonlar Teorisi**
Coordinator: Şentürk G. Y., Researcher: Gürses N., Istanbul Gelisim University Scientific Research Projects (İGÜ-BAP), Higher Education Institutions Supported Project

COMPUTER ENGINEERING



Dr. Mustafa TUNAY

Background

Dr. Mustafa TUNAY received his undergraduate degree from Girne American University in 2009, his master's degree from Girne American University in 2011 and his doctorate degree from Near East University in 2015. He teaches Visual Programming, Advanced Algorithm Analysis and Design as a lecturer at Istanbul Gelişim University Computer Engineering Department.

Communication

 mtunay@gelism.edu.tr

Research Areas:

Artificial Neural Networks

Optimization Algorithms

Areas of Expertise:

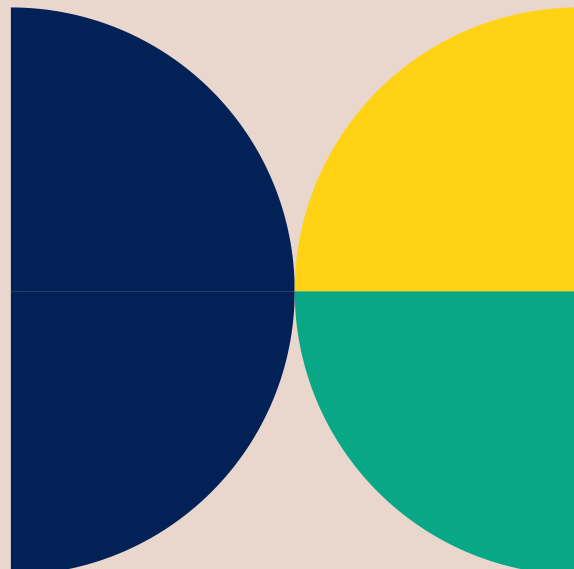
Algorithm Analysis

Computer Engineering

Publications

2022

- Tunay, M., & Abiyev, R., (2022). Improved Hypercube Optimisation Search Algorithm for Optimisation of High Dimensional Functions. *Mathematical Problems in Engineering* , vol.2022.
- Tunay, M., Pashaei, E., & Pashaei, E., (2022). Hybrid Hypercube Optimization Search Algorithm and Multilayer Perceptron Neural Network for Medical Data Classification. *Computational Intelligence and Neuroscience* , vol.2022.



COMPUTER ENGINEERING



Dr.
Seda Yamaç AKBIYIK

Background

Dr. Member Seda Yamaç AKBIYIK received her undergraduate degree from Zonguldak Bülent Ecevit University in 2009, her graduate degree from Yıldız Technical University in 2012, and her doctorate degree from Yıldız Technical University in 2018. As a lecturer at Istanbul Gelisim University Computer Engineering Department, he teaches Mathematics I, Mathematics II, Differential Equations, Linear Algebra, Probability and Statistics, Advanced Mathematics.

Communication

✉ syamac@gelisim.edu.tr

Research Areas:

Mathematics

Areas of Expertise:

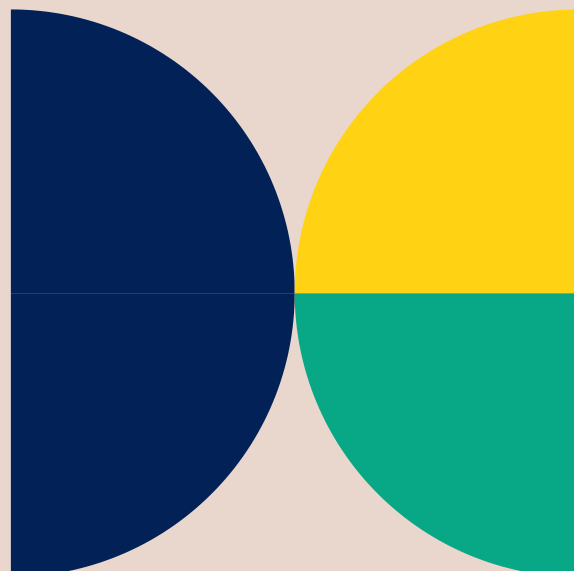
Mathematics

Computer Engineering

Publications

2022

- Akbiyik, M., Yamac Akbiyik, S., & Yilmaz, F., (2022). The matrices of Pauli quaternions, their De Moivre's and Euler's formulas. INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS , vol.19, no.11.
- AKBIYIK, M., YAMAÇ AKBIYIK, S., & YILMAZ, F., (2022). On linear algebra of one type of symmetric matrices with harmonic Fibonacci entries. NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS , vol.28, no.3, 399-410



COMPUTER ENGINEERING




Dr. Ümit ALKAN

Background

Dr. Ümit Alkan received his undergraduate degree from Yıldız Technical University in 2001 and his master's degree from Yıldız Technical University in 2004. He received his PhD from Yıldız Technical University in 2011. He teaches Physics I and Physics II courses as a lecturer at Istanbul Gelisim University Computer Engineering Department.

Communication

 ualkan@gelisim.edu.tr

Research Areas:

Physics



Electrics



Material

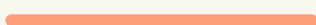


Polymer Physics



Areas of Expertise:

Physics



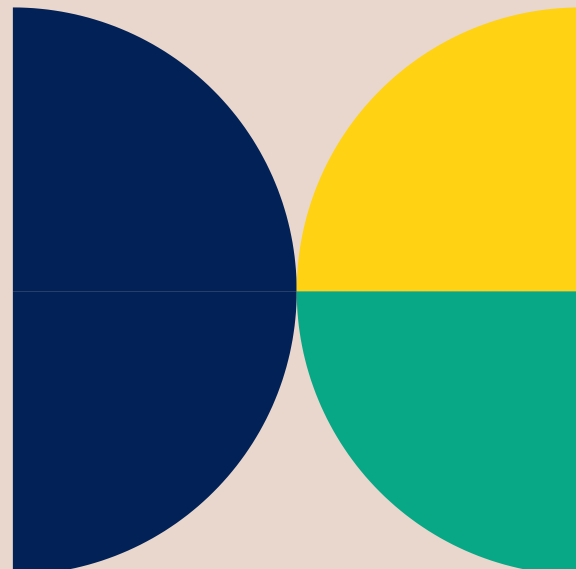
Computer Engineering



Publications

2022

- Akkaya, E. E. , Özer, M. , Şentürk, K. , Öztürk, V. & Alkan, Ü. (2022). DESIGN AND CONTROL OF A MOBILE STEWARD PLATFORM WITH FOUR INDEPENDENT WHEELS . Mugla Journal of Science and Technology , 8 (1) , 19-25 . DOI: 10.22531/muglajsci.982013



COMPUTER ENGINEERING




Res. Assist.

Mehmet Ali BARIŞKAN MSc.

Background

He received his undergraduate degree from Istanbul Aydın University in 2013 and his master's degree from Istanbul University in 2017. She is continuing her PhD at Istanbul University-Cerrahpaşa. He works as a Research Assistant at the Computer Engineering Department of Istanbul Gelişim University.

Communication

 mabariskan@gelisim.edu.tr

Research Areas:

Cyber Security

A.I.

Information System Reliability

Software Security

Areas of Expertise:

Cyber Security

Computer Engineering

Publications

2022

- Gönen, S., Barışkan, M. A., Karacayılmaz, G., Alhan, B., YILMAZ, E. N., ARTUNER, H.,... Sindiren, E.(2022). A Novel Approach to Prevention of Hello Flood Attack in IoT Using Machine Learning Algorithm Makine Öğrenmesi Algoritmasını Kullanarak IoT'de Hello Flood Saldırısının Önlenmesine Yönelik Yeni Bir Yaklaşım. El-Cezeri Journal of Science and Engineering , vol.9, no.4, 1529-1541.
- GÖNEN, S., BARIŞKAN, M. A., Karacayılmaz, G., ALHAN, B., YILMAZ, E. N., & ARTUNER, H., (2022). Gender Detection Via Voice Using Artificial Intelligence Algorithms. Gazi Mühendislik Bilimleri Dergisi , vol.8, no.3, 567-575.
- Kocaman, Y., Gönen, S., Barışkan, M. A., Karacayılmaz, G., & YILMAZ, E. N., (2022). A novel approach to continuous CVE analysis on enterprise operating systems for system vulnerability assessment.International Journal of Information Technology (Singapore) , vol.14, no.3, 1433-1443.
- Korkmaz, T., Çetinkaya, A., Aydın, H., & Barışkan, M. A., (2021). Analysis of whether news on the Internet is real or fake by using deep learning methods and the TF-IDF algorithm. International Advanced Researches and Engineering Journal , vol.5, no.1, 31-41.
- TAŞÇI, H., GÖNEN, S., BARIŞKAN, M. A., KARACAYILMAZ, G., ALHAN, B.,& YILMAZ, E. N., (2021). Password Attack Analysis Over Honeypot Using Machine Learning Password Attack Analysis. Turkish Journal of Mathematics and Computer Science , vol.13, no.2, 388-402.
- Alhan, B., Gönen, S., Karacayılmaz, G., Barışkan, M. A., & YILMAZ, E. N., (2022). Real-Time Cyber Attack Detection Over HoneyPi Using Machine Learning. Tehnicki Vjesnik , vol.29, no.4, 1394-1401.

Projects

İSTANBUL İLİNDE ÇALIŞMA HAYATINDAKİ MESLEKİ GERİLİM VE STRESS'İN ARAŞTIRILMASI BAP 2020-2022 Researcher

AVCILAR İLÇESİNİN 3 MAHALLESİNİN HASAR GÖREBİLİRLİĞİN HESAPLANMASI BAP 2020-2022 Researcher

Lİ-Fİ TABANLI SİSTEMLERDE SİBER GÜVENLİK ANALİZİ BAP 2020-2022 Researcher

Lİ-Fİ TABANLI SİSTEMLERDE PERFORMANS ANALİZİ BAP 2020-2022 Researcher

COMPUTER ENGINEERING



Res. Assist.

Muhammet Mustafa YURDAKUL

Background

Res. Assist. Muhammet Mustafa YURDAKUL received his undergraduate degree from Istanbul Gelisim University in 2020. He continues his master's degree at Istanbul Gelisim University. He works as a Research Assistant at the Computer Engineering Department of Istanbul Gelisim University.

Communication

 mmyurdakul@gelisim.edu.tr

Research Areas:

Robotics

Image processing

A.I.

Object Detection

Electronics

Areas of Expertise:

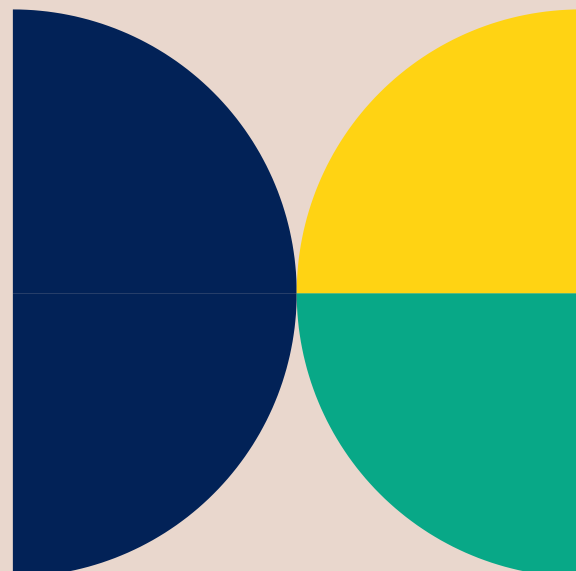
Object Detection

Computer Engineering

Publications

2021

- SENSOR BASED DAIRY ANIMAL HEALTH MONITORING AND USER NOTIFICATION SYSTEM - TURKES MUHAMMED KEREM, YURDAKUL MUHAMMET MUSTAFA, AKCA HAKAN (2021), International Conference on Engineering Technologies





ISTANBUL
GELISIM
UNIVERSITY

research
HIGHLIGHTS

EVENTS



“Samiha Ayverdi Anatolian High School Promotion Day” dated 02.03.2023

“Online Seminar” dated 24.03.2023



KONUŞMACI

Buğrahan Zeki KADAK
Stocking AI - Kurucu Ortak

 **24 Mart, 2023**
Cuma

 **18.00-19.00**


Google Meet



<https://meet.google.com/ky-gjw-vcv>

gelisim.edu.tr



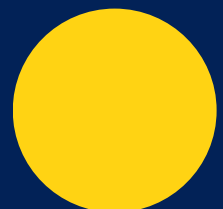


ISTANBUL
GELISIM
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research
HIGHLIGHTS



GRADUATES



GRADUATES

Birkan ALHAN

2021 Graduate

I was torn between many options during the selection phase. As a result of my research and the schools I visited, I decided to choose Istanbul Gelişim University. The reason for this was that the infrastructure and laboratories required for engineering were useful and state-of-the-art. After I started university, I used these laboratories frequently in the projects and application courses I was involved in. With these experiences, I realized how right my choice was.

After I started university, I made many friends from different departments. I had the opportunity to learn a lot about their department from this group of friends. With these experiences, my interest in UAVs increased and I tried to improve myself. We formed a team with my friends and together we participated in the Teknofest competition in the Unmanned Aerial Vehicle category. It was quite a fun and educational experience.

I was very interested in information security issues, especially in the courses I attended and the laboratory practices we did. I decided that I wanted to shape my career in this direction, so I started working to improve myself on these issues before I graduated.

After graduating from computer engineering, I first started working as a software developer in a small company in the private sector, using the computer, electrical-electronics and software knowledge I learned here. After I developed myself and gained experience in the sector, I moved to a better company as a software developer. However, I wanted to move on to the field of information security, which was my main interest, and I found a job in a good company in that field. I am still working there now. My next goal is to work in companies that are the giants of the industry by further developing what I learned at the university and in the places I worked.



ISTANBUL
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research
HIGHLIGHTS



**FACULTY OF ENGINEERING AND
ARCHITECTURE
ELECTRICAL AND ELECTRONICS
ENGINEERING**

ELECTRICAL ELECTRONICS ENGINEERING

Asst. Prof. Dr. Ercan AYKUT
Electrical and Electronics Engineering
Head of Department



Dear readers,

Istanbul Gelisim University Faculty of Engineering and Architecture Department of Electrical and Electronics Engineering was established in 2015 and started its activities in the 2016-2017 academic year. In our department, an educational program is carried out that has been meticulously created by our external stakeholders and our expert academic staff, taking into account the modern and high technologies desired by today's industry. Our main goal is to train engineers who are forward-thinking, adapt to teamwork, love their country and nation, who can design and produce new, modern, environmentally friendly and computer-aided intelligent products that today's information and technology world expects. In line with this goal, in addition to the basic field courses, technical trips, internship protocols, etc. for our students to get to know the technologies that are considered necessary in the sector. along with such activities, it is ensured that they can take courses from other engineering branches for the subjects they are interested in.

With its very successful and valuable academic staff in the field of Electrical and Electronics Engineering, innovative, visionary and high-quality educational program, it is a candidate to train the most successful engineers of the future. In our department, we contribute to both the sector and the academic community by providing education at both undergraduate and graduate levels. There are many local and foreign students studying in our department. Electrical and Electronics Engineering, which is a mixed branch of engineering, appears as a department that offers a wide range of fields of study from electricity generation to the design of electronic devices, from the development of communication and communication systems to maintenance and repairs. Electrical and Electronics Engineers, who can work in almost any field, including official and private institutions, are among Decently respected and sought-after professions of the future with wide job opportunities.

We offer our students a school environment beyond their dreams with our national and international level trainings, technological infrastructure, qualified teaching staff who are experts in their field, adequate laboratory facilities and various opportunities we know. I believe that we will complete a successful, happy and peaceful educational process together at Istanbul Gelim University, which has proven its success with its academic and social activities. In addition, having qualified for the accreditation of the United States-based Accreditation Board for Engineering and Technology (ABET), which has a very high recognition in the world, our department demonstrates and proves its success in ensuring the high quality of its education and the standards set by this organization. Within the framework of this prestigious accreditation, our department systematically conducts quality approaches and continuous improvement studies to improve the processes and outputs of the department by holding meetings with its stakeholders. The education and training of the Department of Electrical and Electronics Engineering is being developed by taking into account the demands/suggestions of the students, our internal and external stakeholders and our graduate students.

Asst.Prof.Dr. Ercan AYKUT
Electrical and Electronics Engineering
Head of Department

ELECTRICAL ELECTRONICS ENGINEERING



GENERAL INFORMATION

Electrical and Electronics Engineering is a branch of engineering that has started to be expressed frequently in recent years and is needed more and more with the widespread use of intelligent systems and robots in industry. The rapidly developing technology in the electronic systems design, computer hardware and software sectors and the transition to intelligent systems in the industry where this development is transferred have increased the need for self-trained Electrical and Electronics Engineers in both software and hardware fields. Electrical and Electronics Engineering works on the design and production of functional intelligent systems and products useful to humanity and industry.

At the Department of Electrical and Electronics Engineering of Istanbul Gelim University, the goal is to train engineers who are equipped, have theoretical knowledge as well as practical experience for the development of technologies that reshape life and industry.

Graduates of the department are engineers who have detailed knowledge in their specialized fields, can follow the developments in this field in the world with both knowledge units and foreign language competencies, integrate into the environment where they are located, facilitate human life and design environmentally friendly products.

Nowadays, when the transition period of intelligent systems, which is considered as a revolution in the industry, is taking place, Electrical and Electronics Engineers are needed in every field where there is production and technology. Graduates of Electrical and Electronics Engineering, who have a wide range of career opportunities, are offered jobs in many fields such as defense industry, aerospace sector, electronic systems design and production, industrial automation, smart sensors, electromechanical systems

ELECTRICAL ELECTRONICS ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES



Educational Objectives of the Program

Our graduates who were educated within the framework of this basic purpose;

- 1) Graduates will continue their education and development in accordance with the freedom of science.
- 2) Graduates will continue their careers by using the knowledge and skills they have acquired in engineering undergraduate programs.
- 3) Graduates will be known as active participants in a wide range of jobs, community activities/services, or government or public services.
- 4) Graduates will be able to serve at the national and international level, have self-confidence, have communication skills that will create a successful career, and take an effective and leading role in managing their professional knowledge.

ELECTRICAL ELECTRONICS ENGINEERING

MISSION

To train engineers equipped with knowledge and skills in Electrical and Electronics Engineering and related disciplinary fields, able to monitor new technologies and developments, able to question, able to develop new designs, benefiting society, environmentally conscious, respectful of human rights.



VISION

To be one of the leading departments in the fields of Electronics and related engineering with its contributions to science and technology, competitive at national and international levels.

OUR ACADEMIC STAFF



Asst. Prof. Dr. Ercan AYKUT
Ph.D. Marmara University



Prof. Dr. Hüseyin ÇAKIR
Ph.D. Yıldız Technical University



Assoc. Prof. Aydemir ARISOY
Ph.D. Yıldız Technical University



Asst. Prof. Dr. Ayşe KARAOĞLU
Ph.D. Ege University



Asst. Prof. Dr. Fatma Gülşen
ERDİNÇ
Ph.D. Yıldız Technical University



Asst. Prof. Dr. Sevcan
KAHRAMAN
Ph.D. Kocaeli University



Asst. Prof. Dr. Yusuf Gürcan ŞAHİN
Phd Kocaeli University



Asst. Prof. Dr. Turgut ŞAHİN
Phd Balıkesir University



Res. Asst. Kubilay ATAŞ



Res. Asst. Beray İKİNCİ

ELECTRICAL ELECTRONICS ENGINEERING

UNDERGRADUATE PROGRAM

Turkish English Department of Electrical and Electronics Engineering Department of Electrical and Electronics Engineering provides education under two departments as Turkish and English Programs. Our curriculum has been prepared in accordance with the ECTS system and is accredited by ABET and consists of 8 semesters. The curriculum includes basic science courses, departmental courses, departmental elective courses, social elective courses and non-departmental elective courses, as well as 2 mandatory summer internships. While it is ensured that students receive basic information about the profession together with compulsory courses, it is aimed that students take courses related to their interests together with elective courses.

Istanbul Gelisim University Department of Electrical and Electronic Engineering in Turkish received its first students in the 2016-2017 academic year. Our English department received its first students in the 2022-2023 academic year.

ELECTRICAL ELECTRONICS ENGINEERING

MASTER PROGRAM

In our Master's Program in Electrical and Electronics Engineering with Thesis, we train high-level electrical and electronics engineers who are needed in the sector and contribute to the sector in academic and sectoral terms.

The Master's Program in Electrical and Electronics Engineering with Thesis educates expert engineers and researchers who can perform innovative artificial intelligence-based system designs with the capabilities of electronics, software development and control systems development, and who can follow the developments and innovations in this field and provide solid science

The Master's Program in Electrical and Electronics Engineering with Thesis aims to educate entrepreneurial and productive mechatronics engineers who can demonstrate academic level differences, think creatively, critically and analytically, represent our country at the international level, compete with superior competitiveness in the competitive market, create fast and effective solutions to contemporary problems.



**AKADEMIC CV
AND
SCIENTIFIC STUDIES**

ELECTRICAL ELECTRONICS ENGINEERING




Asst. Prof. Dr. Ercan AYKUT

Background

Asst.Prof.Dr. Ercan AYKUT received his undergraduate degree from Marmara University in 2002, his master's degree from Marmara University in 2007 and his doctorate degree from Marmara University in 2019. He is the Head of the Department of Electrical and Electronics Engineering at Istanbul Gelişim University.

Contact

 eaykut@gelisim.edu.tr

Research Areas:

Electrical electronics Engineering

Engineering and Technology

Areas of Expertise :

Automation

Renewable Energy

Power systems

Publications

- 2022 Meslek Yüksekokulu Öğrencileri İçin Yaz Stajı Yazılımı TAŞ S., AYKUT E. 4th International Conference on Applied Engineering and Natural Sciences, Konya, Türkiye, 10 - 13 Kasım 2022, ss.266
- 2022 Karbon Ayak İzi ve İklim Değişikliği TAŞ S., AYKUT E., MUMCU M.C., ERDOĞAN K., ÇETİNKAYA A., TOMBAL N. Y., YAVUZ İ. 4th International Conference on Applied Engineering and Natural Sciences, Konya, Türkiye, 10 -13 Kasım 2022, ss.13-14
- 2022 360 VR Kamera ile Sanal Gerçeklik Ortamında Uzaktan Eğitim AYKUT E., TAŞ S. 2n International Conference on Engineering and Applied Natural Sciences (ICEANS2022), Konya, Türkiye, 15 Ekim2022, ss.227
- 2022 Sanal Gerçeklik (VR) Ortamında Keman Eğitimi AYKUTE., TAŞ S. 1st International Conference on Innovative Academic Studies (ICIAS2022), Konya, Türkiye, 10 Eylül 2022, ss.185
- 2022 An FDTD modeling of GPR for Detecting and Mapping Archeological Sites MUMCUM.C., YAVUZ İ., AYKUT E., TAŞ S. International Conferences on Science and Technology (ICONST), Budva, Karadağ, 07 Eylül 2022
- 2022 Termostat Üretimi İçin Mikro Kontrolör Tabanlı Otomatik Kalibrasyon AYKUT E., TAŞ S. Uluslararası Güncel Araştırmalar Sempozyumu 2022 (UGAS'22), Türkiye, 21 Şubat 2022



ELECTRICAL ELECTRONICS ENGINEERING

Asst. Prof. Dr. Ercan AYKUT

Publications (Continued)

2022 Sanal Gerçeklik Teknolojisi Kullanımıyla Obezite Mücadelesi AYKUT E., TAŞ S. Uluslararası Güncel Araştırmalar Sempozyumu 2022 (UGAS'22), Türkiye, 21 Şubat 2022

Projects

2023 Yükseköğretim Kurumları Destekli Proje, İstanbul Gelişim Meslek Yüksekokulu Sayısal Elektronik Laboratuvar Dersinin Sanal Gerçeklik Ortamına Aktarılması, Aykut E., Taş S., 2023 - 202

Refereeing

2022 International Journal of Engineering Technologies, Hakemli Bilimsel Dergi, Eylül 2022

2021 European Journal of Technique, Hakemli Bilimsel Dergi, Kasım 2021

ELECTRICAL ELECTRONICS ENGINEERING



Prof. Dr. Hüseyin ÇAKIR

Background

Prof. Dr. Hüseyin Çakır received his bachelor's degree from Istanbul State Academy of Engineering and Architecture (IDMMA) in 1971 and his Master's degree from the same institution in 1972. he completed his doctorate degree at Yildiz Technical University Department of Electrical Engineering in 1985. He has trained many undergraduate and graduate students and conducted scientific studies. In recent years, he has taken a break from his scientific studies and has continued to teach only to students.

Contact

 hcakir@gelisim.edu.tr

Research Areas:

Electrical Engineering

Energy Systems

Areas of Expertise:

Electrical Energy Systems

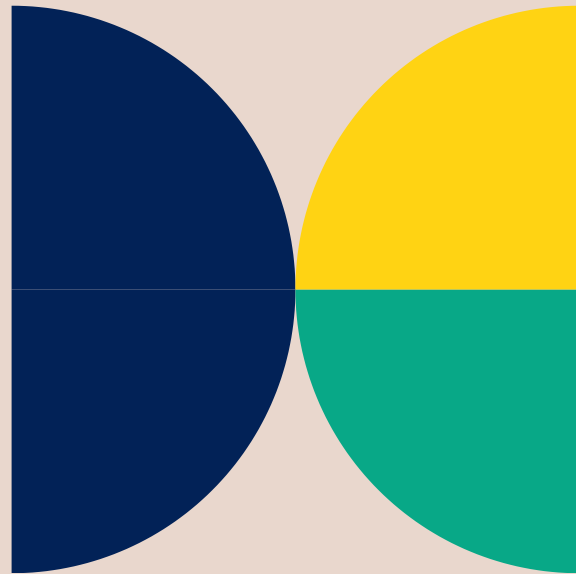
High Voltage

Computerized Analysis of Energy
Systems

Publications

There are no publications that our esteemed professor has published in the last 3 years. However, it is recommended that our readers who want to review the resume should visit the following web address.

https://persis.gelisim.edu.tr/DOSYA/CV/2606_1_Prof.Dr.Hüseyin ÇAKIR özgeçmiş.pdf



ELECTRICAL ELECTRONICS ENGINEERING




Assoc.Prof.Aydemir ARISOY

Background

Assoc. Prof. Aydemir Arisoy received his bachelor's degree from Yildiz Technical University in 1989, his master's degree from Middle East Technical University in 2000 and his doctoral degree from Istanbul Technical University in 2008 .As a Faculty Member at the Department of electrical and electronics Engineering of Istanbul Gelişim University, he teaches courses on Automatic Control, Control System Design, System Dynamics.

Contact

 aarisoy@gelisim.edu.tr

Research Areas:

Control Engineering



Mechatronics Engineering



Electrical Engineering



Areas of Expertise:

Automatic Control



Control Systems

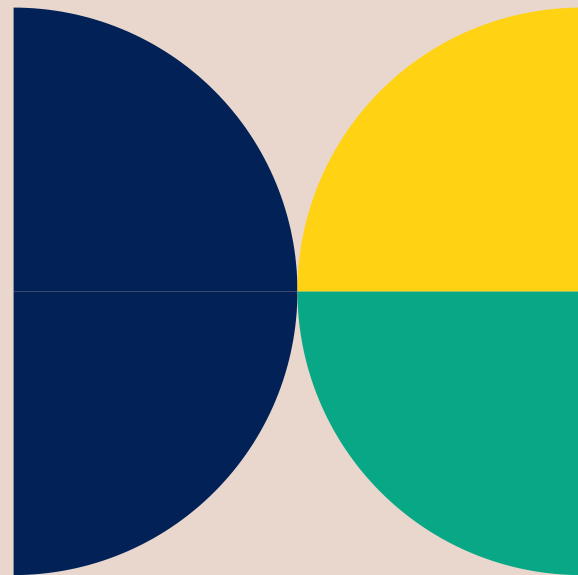


Electrical Machines



Publications

2020 Direct torque control versus indirect field-oriented control of induction motors for electric vehicle applications, Mustafa Aktaş, Khaled Awaili, Mehrdad Ehsani, Aydemir Arisoy



ELECTRICAL ELECTRONICS ENGINEERING



Asst. Prof. Dr. Fatma Gülşen ERDİNÇ

Background

Asst. Prof. Dr. Fatma Gülşen ERDİNÇ received her bachelor's degree from Bahçeşehir University in 2008, her master's degree from Yıldız Technical University in 2011 and her PhD degree from Yıldız Technical University in 2022. She works as a Faculty Member in the Department of Electrical and Electronic Engineering of Istanbul Gelim University and teaches Low Voltage Systems, High Voltage Technology, Protection in Electrical Facilities, Fundamentals of Electrical Engineering at the Faculty of Engineering and Architecture.

Contact

 fgerdinc@gelisim.edu.tr

Research Areas:

Applications of hydrogen energy systems



New generation energy storage systems



Electrical power system integration



Areas of Expertise:

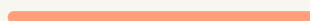
Optimum operation of electrical power systems



Electric transportation systems



Power Systems



Publications

- 2022 Resiliency-Sensitive Decision Making Mechanism for a Residential Community Enhanced with Bi-Directional Operation of Fuel Cell Electric Vehicles, Erdinç F. G., Çiçek A., ERDİNÇ O., *Energies*, cilt.15, sa.22, 2022 (SCI-Expanded)
- 2022 Multi-objective risk-constrained operation of hydrogen-based renewable energy integrated distribution network, Zare Oskouei M., Mohammadi-Ivatloo B., ERDİNÇ O., Gülşen Erdinç F. G., *International Journal of Energy Research*, cilt.46, sa.10, ss.14462-14477, 2022 (SCI-Expanded)
- 2022 Optimal Allocation of Renewable Sources and Energy Storage Systems in Partitioned Power Networks to Create Supply-Sufficient Areas, Oskouei M. Z., Mohammadi-Ivatloo B., ERDİNÇ O., Erdinc F. G., *IEEE Transactions on Sustainable Energy*, cilt.12, sa.2, ss.999-1008, 2021 (SCI-Expanded)
- 2021 Decision-making framework for power system with RES including responsive demand, ESSs, EV aggregator and dynamic line rating as multiple flexibility resources, Erdinç F. G., Çiçek A., ERDİNÇ O., YUMURTACI R., Oskouei M. Z., Mohammadi-Ivatloo B., *Electric Power Systems Research*, cilt.204, 2022 (SCI-Expanded)
- 2022 A comprehensive overview of dynamic line rating combined with other flexibility options from an operational point of view, Erdinç F. G., ERDİNÇ O., YUMURTACI R., Catalão J. P. S., *Energies*, cilt.13, sa.24, 2020 (SCI-Expanded)

ELECTRICAL ELECTRONICS ENGINEERING

Asst. Prof. Dr.Fatma Gülşen ERDİNÇ

Publications (Continued)

2020 Nonlinear Yüklü Sistemde Filtreleme ve Reaktif Güç Kompanzasyonu Açısından Simülasyon ve Deneysel Çalışma Tabanlı bir Analizin Gerçekleştirilmesi

Projects

2022 Etkileşimli Enerji Merkezi Şebekelerinde Yenilenebilir Enerji Sistemlerinin Azami Yaygınlaşma Kapasitesinin Değerlendirilmesi, 2019 -2022, (TÜBİTAK)

ELECTRICAL ELECTRONICS ENGINEERING




Asst. Prof. Dr. Ayşe KARAOĞLU

Background

Asst.Prof.Dr.Ayşe Karaoğlu received her bachelor's degree from Ege University in 2008, her master's degree from Balıkesir University in 2010 and her PhD degree from Ege University in 2017. As a Faculty Member in the Department of Electrical and Electronics Engineering of Istanbul Gelisim University, she teaches Physics 1, Physics 2, Biophysics, Introduction to Thesis and Seminars, Scientific Research Techniques..

Contact

 aykaraoglu@gelisim.edu.tr

Research Areas:

Biophysics

Nuclear

Biomedical

Areas of Expertise:

Biomedical

Nuclear Physics

Publications

- 2023 A reliability study on the cumulative averaging method for estimating effective stimulus time in vibration studies. Kilic A., Soytürk G., Karaoglu A., Topkara Arslan B., Karacan I., Türker K. S. Journal of electromyography and kinesiology :official journal of the International Society of Electrophysiological Kinesiology, cilt.70, ss.102768,2023 (SCI-Expanded)
- 2021 A new method to determine stretch reflex latency. Topkara B., Aydın T., Corum M., Karaoglu A., Ekici Zincirci D., S Bugdayci D., Ones K., Paker N., Kesiktas N., Karacan Muscle and Nerve, cilt.64, sa.6, ss.726-733,2021 (SCI-Expanded)

ELECTRICAL ELECTRONICS ENGINEERING



Asst. Prof. Dr. Yusuf Gürcan ŞAHİN

Background

Asst.Prof.Dr. Yusuf Gürcan ŞAHİN received his bachelor's degree from Kocaeli University in 2003, his master's degree from Kocaeli University in 2006 and his PhD degree from Kocaeli University in 2019.As a Faculty Member at the Department of Electrical and Electronic Engineering of Istanbul Gelisim University, he teaches courses on Solar Panel Applications, Basics of Solar Cells And Introduction to Electrical and Electronics Engineering.

Contact

 ygsahin@gelisim.edu.tr

Research Areas:

Solar Panels

Renewable Energy

Power Electronics

Dielectric Materials

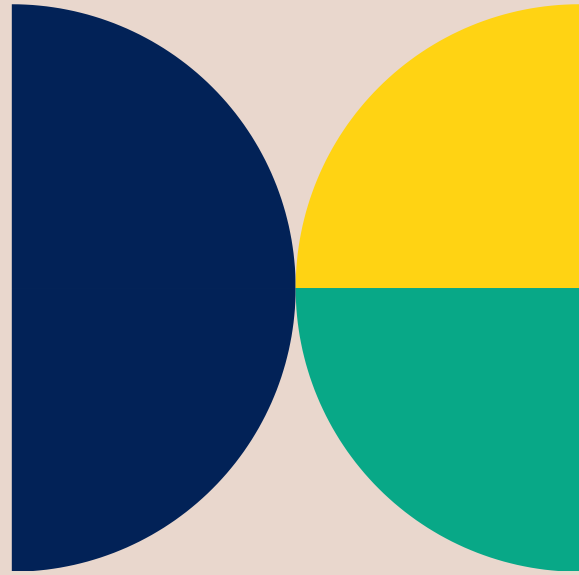
Areas of Expertise:

Electrical Engineering

Renewable Energy

Publications

2019 Şahin, Y. G. (2019). Su dalgası enerjisinden doğrusal generatörlü elektrik üretim sisteminin deneysel incelenmesi.





ELECTRICAL ELECTRONICS ENGINEERING




Asst. Prof. Dr. Turgut ŞAHİN

Background

Asst.Prof.Dr.Turgut Şahin received his bachelor's degree from Balıkesir University in 2003, his master's degree from Balıkesir University in 2006 and his doctoral degree from Balıkesir University in 2014.As a Faculty Member at the Department of Electrical and Electronics Engineering of Istanbul Gelisim University, Electromagnetic Theory. He teaches Physics I, Physics II courses.

Contact

 tsahin@gelisim.edu.tr

Research Areas:

Physics

Magnetic Fields

Areas of Expertise:

Solid State Physics

Electromagnetic

Publications

2023 Giant Magnetoresistance of the Electrodeposited FeCoCu/Cu Multilayers: Metal Oxide Formation with NaOH in the Electrolyte. Şahin T., Köçkar H., Alper M. ACTAPHYSICAPOLONICAA, cilt.143, ss.262-269, 2023 (SCI-Expanded)

2020 Effect of L-ascorbic acid on electrochemically deposited FeCoCu/Cu magnetic multilayer granular films: structural, magnetic and magnetoresistance properties. Şahin T., Tekgül A., Köçkar H., ALPER M. Thin Solid Films, cilt.709, 2020 (SCI-Expanded)

ELECTRICAL ELECTRONICS ENGINEERING




Asst. Prof. Dr. Sevcan KAHRAMAN

Background

Asst.Prof.Dr. Sevcan Kahraman received his bachelor's degree from Dokuz September University in 2005, his master's degree from Izmir High Technology University in 2008 and his doctoral degree from Kocaeli University in 2019. As a Faculty Member at the Department of Electrical and Electronics Engineering of Istanbul Gelisim University, he teaches Circuit Analysis I, Circuit Analysis II, and Signals and Systems courses.

Contact

 sekahraman@gelisim.edu.tr

Research Areas:

Remote Sensing

Hyperspectral Images

Image Processing

Areas of Expertise:

LiDAR

Hyperspectral Images

Publications

- 2023 LiDAR-tabanlı Toplam Değişinti kısıtlı negatif-olmayan tensör faktörizasyonu ile hiperspektral karışım giderimi. ATAŞ K., KAYA A., KAHRAMAN S. PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, cilt.29, sa.1, ss.1-9, 2023 (Hakemli Dergi)
- 2021 A comprehensive review of hyperspectral data fusion with lidar and sar data. Kahraman S., Bacher R. Annual Reviews in Control, cilt.51, ss.236-253, 2021 (SCI-Expanded)
- 2021 LiDAR Verisi Yardımıyla Otomatik Dalga Boyu Bandı Yaklaşımı Kullanılarak Hiperspektral Görüntülerde Spektral Değişkenliğin Azaltılması. KAHRAMAN S. Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, cilt.35, sa.4, ss.983-991, 2020 (Hakemli Dergi)

ELECTRICAL ELECTRONICS ENGINEERING



Res. Asst. Kubilay ATAŞ

Background

Kubilay ATAŞ received his undergraduate degree from Mustafa Kemal University and his graduate degree from Yıldız Technical University. He continues his education in the Electronics Engineering Doctorate Program at Yıldız Technical University, Department of Electronics and Communication Engineering. He works on image processing, artificial neural networks, computer vision and embedded systems.

Contact

kuatas@gelisim.edu.tr

Research Areas:

Biomedical Image Processing

Computer Vision

Embedded Systems

Areas of Expertise:

Embedded Systems

Publications

- 2023 LiDAR-tabanlı Toplam Değişinti kısıtlı negatif-olmayan tensör faktörizasyonu ile hiperspektral karışım giderimi. ATAŞ K., KAYA A., KAHRAMAN S. PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, cilt.29, sa.1, ss.1-9, 2023 (ESCI)
- 2021 Yapay Sinir Ağı Tabanlı Model ile X-ray Görüntülerinden Covid-19 Teşhisi. ATAŞ K., KAYA A., MYDERRİZİ İ. JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, 2021 (ESCI)

Projects

- 2023 Çoklu Sensör Veri Füzyonu ve Yapay Zeka Destekli Bası Yarası İzleme ve Değerlendirme Sistemi. Türkiye Sağlık Enstitüleri Başkanlığı (TÜSEB) Projesi. (Researcher)



ELECTRICAL ELECTRONICS ENGINEERING



Res. Asst. Beray İKİNCİ

Background

She received his Bachelor's degree from Yildiz Technical University in 2021. She started her master's degree at Istanbul Gelişim University in 2022. He is working as a Research Assistant at the Department of Electrical and Electronics Engineering of Istanbul Gelişim University.

Contact

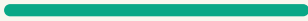
 bikinci@gelisim.edu.tr

Research Areas:

Biomedical



Biosystem



Electronics



Uzmanlık Alanları:

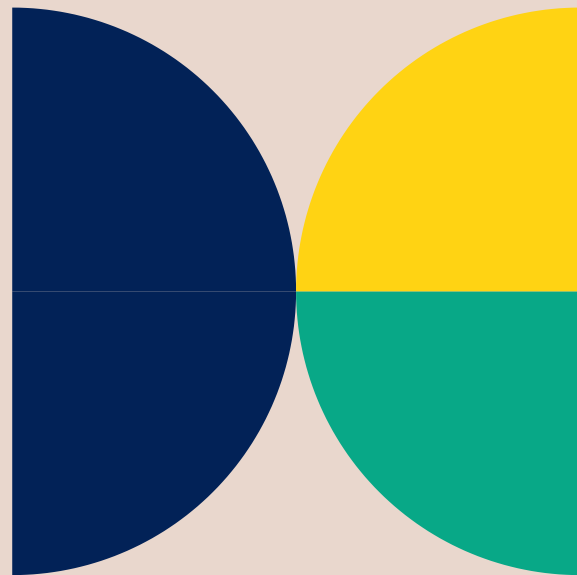
Electronics Engineering



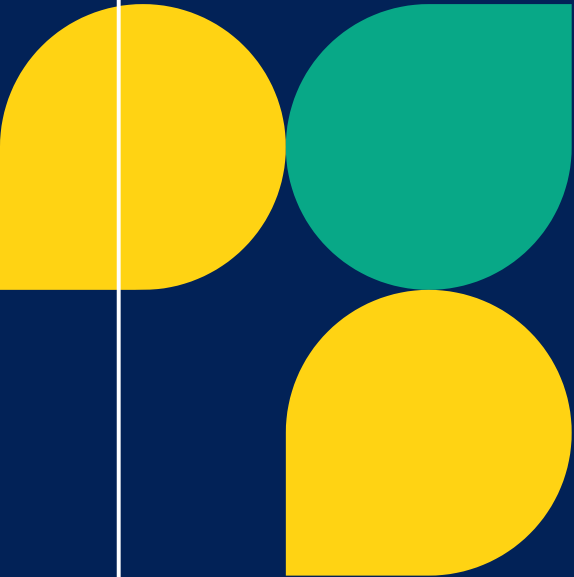
Biomedical



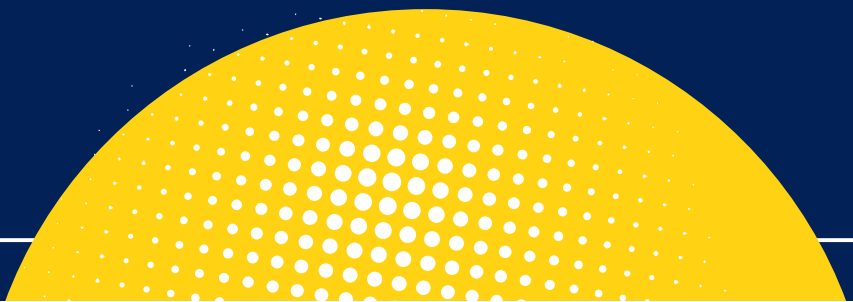
Publications



HIGHLIGHTS



EVENTS





images from the “New Generation Electrical Power Systems and Integrated Technologies” event dated 26.12.2022



Company Technical Trip with our External associate Procesa dated 2.12.2022





**FACULTY OF ENGINEERING AND
ARCHITECTURE**

INDUSTRIAL ENGINEERING

INDUSTRIAL ENGINEERING

Prof. Dr. Tarık ÇAKAR
Industrial Engineering
Head of the Department



Our department has adopted the principle of training Industrial Engineers who are sensitive to their environment and society, who can perceive the technologies of the time they are in. The 4 years you spend in the department will be hard but pleasant. I believe that you will integrate quickly with our expert academic staff and that we will carry out a successful education and training together. I wish you success in advance. I want to talk a little bit about Industrial Engineering.

Industrial engineers use scientific knowledge to solve problems in businesses and organizations, focusing on improving productivity through human resources, financial resources, natural resources, better use of equipment. Industrial Engineers use a range of analytics, simulations, and experimentation methods that apply to problems in design, planning, implementation, and operating systems. These problems are in various service institutions such as banks, hospitals, social services and government institutions; in project based companies such as construction and consultancy; in product based companies such as manufacturing and electronics. The focus of industrial engineering is problem solving, system integration and development.

Industrial Engineering is the most comprehensive engineering discipline in terms of career options. While other traditional engineering branches tend to focus on specific applications of skill areas, an Industrial Engineering education offers you the flexibility to develop your career in the industry of your choice. Industrial Engineers usually start their careers with different job titles, as they focus on closing the gap between management and operations in a cross-section of organizations and professional fields. Production engineer, quality engineer, management engineer, productivity manager and process engineer are common entry level or early management jobs for our graduates in production, healthcare and other related engineering fields.

In very simple terms, industrial engineers often understand how to make things better or do things while engineers do something. This is what gives Industrial Engineers so much flexibility. Industrial Engineers are primarily concerned with three closely related issues: efficiency, cost and quality. They address these two issues by looking at the integrated machine, human, information, computer and other resource systems. Various skills and techniques are used to design and operate these systems as efficiently as possible, as well as to continuously improve them and maintain the highest quality levels. Industrial Engineers, while making the workplace better for other employees, on the other hand make important contributions to their employers such as productivity, earnings and quality increase, and cost reduction.

Successful engineers are expected to be more experienced not only in technical engineering skills but also in skills such as communication, ethics, entrepreneurial thinking and professionalism. These leadership and innovativeness distinguish engineers and prepare for future global business leaders by providing training and experience.

Prof. Dr. Tarık ÇAKAR

INDUSTRIAL ENGINEERING

GENERAL INFORMATION

The main objective of Industrial Engineering Department of Istanbul Gelişim University is to provide graduates with the knowledge and skills that they have gained throughout their undergraduate education and training in hardware and software that will enable them to improve, design and manage business systems and processes in an environmentally compatible manner in terms of effectiveness, productivity, profitability, flexibility, sensitivity, sustainability and high quality principles; and to educate graduates modern and qualified industrial engineers who have the qualifications, social responsibility and professional ethics.



INDUSTRIAL ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES



1. Istanbul Gelisim University graduates of Industrial Engineering can provide researchers, creative, innovative, productivity-enhancing, scientific solutions individually and in team work to business and management problems with basic engineering formation and possessing contemporary professional equipment (PEO1).
2. Istanbul Gelisim University graduates of Industrial Engineering can follow developments in current technology and Industrial Engineering by adopting the principle of life-long learning; They can continue their professional and personal development by carrying out postgraduate studies, take part in scientific researches and projects when necessary (PEO2).
3. National and international enterprises and organizations can accept themselves with success in each management stage over time, they can take place as effective and directive in the practice of their profession and they can manage (PEO3).
4. They exhibit an exemplary personality that is open to the world, questionable, entrepreneurial, confident, principled, prone to teamwork, sensitive to environment and collecting, respectful to professional ethical values (PEO4).

INDUSTRIAL ENGINEERING

Mission

- Has analytical and creative thinking skills,
- Continuous learning and self-development,
- Continuously work on the most efficient use of the resources that the company is in charge of,
- Students who are able to research and solve problems, use what they learn,
- A company that always adopts the principle of doing value-added work,
- International professional business values and business ethics,
- To train entrepreneurial and leading Industrial Engineers.



Vision

The vision of the Industrial Engineering is to be a department that educate industrial engineers who are accepted and appreciated by the national and international academic and industrial organizations with a modern and qualified education system and which give values that will make a difference to their students and who are researchers and innovators who are insensitive to ethical values and are prone to teamwork.

<https://mmf.gelisim.edu.tr/en/akademik-department-industrial-engineering>

ACADEMIC STAFF



Prof. Dr.
Tarık ÇAKAR
Ph.D. Istanbul Technical University



Prof. Dr.
Kenan ÖZDEN
Ph.D. Ege University



Prof. Dr.
Cemalettin KUBAT
P.h.D. Istanbul University



Prof. Dr.
Yılmaz ÖZKAN
Ph.D. Istanbul University



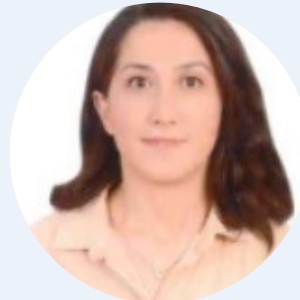
Assist. Prof. Dr.
Didem YILMAZ
Ph.D. Istanbul University



Assist. Prof. Dr.
Binnur GÜRÜL
Ph.D. Istanbul University-
Cerrahpaşa



Assist. Prof. Dr.
Seda ERBAYRAK
Ph.D. Yıldız Technical University



Assist. Prof. Dr.
Semanur SARIÇAM
Ph.D. Mimar Sinan Fine Arts
University



Res. Assist.
Nurdan TÜYSÜZ



Res. Assist.
Duygu TÜYLÜ

INDUSTRIAL ENGINEERING

UNDERGRADUATE PROGRAM

Istanbul Gelisim University Industrial Engineering Department started its education activities in the D-Block in the 2011-2012 academic year under the Faculty of Engineering and Architecture. It gave its first graduates in 2015 and still operates as one of the departments affiliated to this faculty. With the opening of the J-Block Tower campus, the Department moved to its new building in the spring semester of the 2021-2022 academic year and continues its activities here. Undergraduate student admission quota is 35 as of 2022.

Unlike other universities, our department has been accredited by the US-based international accreditation organization "Accreditation Board for Engineering and Technology" (ABET) until September 30, 2025. In order to graduate, undergraduate students have to successfully complete the courses in the education plan certified by ABET and two 30-day compulsory summer internships.

Industrial Engineers, whose expertise is basically cost reduction, productivity and efficiency increase, quality with the interdisciplinary education they receive, can be called "business physicians" in a way. Because Industrial Engineers can work as problem solvers, eliminating existing inefficiencies, system builders and system developers in every department of any business. For this reason, in all enterprises producing goods and services in public and private sector enterprises; For example, they can be employed in manufacturing industry, finance, banking, insurance, merchandising, health, tourism, education and consultancy businesses.

INDUSTRIAL ENGINEERING

MASTER PROGRAM

Engineering Management Thesis/Non-Thesis Master's Programs operate under the Industrial Engineering Department of Istanbul Gelişim University Graduate Education Institute. The opening of the Engineering Management Master's Programs with and without Thesis was examined and accepted at the Higher Education Executive Board meeting of the Council of Higher Education on 22 May 2019. The program started its Education and Training activities in the 2019-2020 Fall semester. It gave its first graduates in June 2021. Head of Department Prof. Dr. Tarık ÇAKAR. Due to the fact that it is affiliated to the Industrial Engineering Department, the Faculty Members who teach in the Engineering Management Master's Programs work full-time in the IGU Industrial Engineering Department.

Engineering Management Thesis and Non-Thesis Master's Programs; It aims to train graduates of different engineering disciplines with the skills to use different technical knowledge and skills they have more effectively, to train them as managers who can carry out activities in which applied sciences are used, and to train graduate engineers who can make strategic and operational decisions about existing and future technologies.



**ACADEMIC CV
AND
SCIENTIFIC STUDIES**

INDUSTRIAL ENGINEERING



Prof. Dr. Tark ÇAKAR

Background

Tark Çakar was born in 1966 in Istanbul. He graduated from ITU Management Engineering Department in 1988. He completed his master's degree in 1991 and his doctorate in 1997 in ITU Institute of Science and Technology, Department of Management Engineering. Between 1989-1998, he was a research assistant at Sakarya University, Department of Industrial Engineering, and between 1998-2010, Assistant Professor at the same university. Between 2010-2017 Associate Professor Dr. served as He worked as a researcher in various projects at Wichita State University Industrial Engineering Department between 2003-2004. He gave lectures on Industrial Engineering at International Balkan University between 2012-2016. He served as the Dean of the same university for 1 year in the 2015-2016 period. In 2017, ITU Faculty of Business Administration Engineering Department Prof. Dr. was appointed as He has been working at Istanbul Gelişim University Industrial Engineering Department since 2018. He has been the Head of the Department since April 2020.

Contact

 tcakar@gelisim.edu.tr

Research Areas:

Smart Scheduling

Artificial Intelligence

Artificial Neural Networks

Genetic Algorithms and Particle Swarm Optimization

Fuzzy Logic

Multi-Criteria Decision Making

Production Planning and Control

Areas of Expertise:

Artificial intelligence

Intelligent Scheduling

Multi-Criteria Decision Making

Fuzzy Sets

Human Factor Engineering

Publications

- 2020 Computational Intelligence and Neuroscience; "Green Supplier Selection Using Fuzzy Multiple Criteria Decision Making Methods and Artificial Neural Networks" has been published.
- 2021 TEM Journal; "Neurotic Fuzzy-Data-Envelopment Analysis to Forecast Efficiency of Bank Branches" has been published.
- 2021 Operational Research in Engineering Sciences: Theory and Applications; "Supplier selection process in dairy industry using fuzzy topsis method" has been published.

Book & Book Chapters

- 2022 Endüstri Mühendisliğine Giriş Temel Bilgiler Elkitabı - Editor
Chapter 3 - Ergonomiye Giriş
Chapter 9 - İş Sıralama ve Çizelgeleme

Projects

- 2021 In 2021, the project named "Calculation of Vulnerability of 3 Neighborhoods of Avcılar District (KAP-210220-HSK)" has been studied for 18 months.
- 2020-2022 Investigation of Occupational Tension and Stress in Working Life in Istanbul Province BAP 2020-2022 - Executive

<https://scholar.google.com/citations?user=ByUAyskAAAAJ&hl=en>

INDUSTRIAL ENGINEERING



Prof. Dr. Kenan ÖZDEN

Background

He was born in Eskişehir in 1950. After completing the Military Air High School in İzmir, he graduated from the Air War College in 1970, the Air Language School in 1971, and the Air Communication Electronics School in 1972. He completed high school with the second place and the other schools with the first place. He worked as a communications officer and as an Electronic Courses teacher at Air Technical Schools for a while. He also completed his undergraduate studies in 1975 and his graduate studies in 1977 at Ege University, Faculty of Economics and Administrative Sciences, Department of Production. He received his Ph.D. from Ege University Faculty of Business Administration at the end of 1979 and was appointed to the Air Force Academy as a faculty member. Between 1980-1990, he served as the Head of the Department of Business Administration and a lecturer at the Air Force Academy. He became Associate Professor in 1990. Meanwhile, he took part in various projects related to the Turkish Air Force. He retired in 1990 and entered the business life. Until 2005, he worked as a partner, general manager and member of the board of directors in a group of companies and companies they founded, in areas such as building materials trade and production, villa construction. Between 2005-2008, he served as the Head of the Department of Business Administration, a board member and a member of the Senate at the Kyrgyzstan-Turkey Manas University Faculty of Economics and Administrative Sciences in Bishkek. It organized the first two successful congresses by starting the "International Entrepreneurship Congresses" series, which is important for the economic and social development of the region, as a Department. He became a faculty member at the Industrial Engineering Department of the Faculty of Engineering at Haliç University in 2008, and became the Head of the Department and Professor in 2009. After continuing this duty and various board memberships until the end of 2015, at the beginning of 2016, Ist. He transferred to the Department of Industrial Engineering, Faculty of Engineering and Architecture, at Gelişim University as the Head of the Department. In 2019, the department became the 5th End Engineering Department, which achieved the world-renowned ABET engineering accreditation in Turkey. He is still a lecturer in this department. Having 12 books and numerous national and international publications, Prof. Dr. Kenan ÖZDEN won the 2010 Turkish Academy of Sciences (TÜBA) Copyright Book Award in Engineering.

Contact

✉ kozden@gelisim.edu.tr

Research Areas:

Work Study

Ergonomics

Operations Research

Management and Organization

Facility Planning

Total Crisis Management

Areas of Expertise:

Production Management-
Numerical Methods

Publications

2023 Istanbul Gelisim University Journal of Social Sciences; "Line Balancing Based on Error Rate Estimation with Artificial Neural Networks in Assembly Line Operations" has been published.

Book & Book Chapters

2020 Yöneyem Araştırması 2 QM Yazılım Uygulamalarıyla Temel Konular

2021 Toplam Kriz Yönetimi İşletme ve Bölüm Strateji ve Politikalarıyla Bütünsel Yaklaşım

2022 Endüstri Mühendisliğine Giriş Temel Bilgiler Elkitabı - Editor
Chapter 2 - Sürdürülebilir Performans ve Verimlilik
Chapter 5 - Tesis Planlaması ve Kuruluş Çalışmaları
Chapter 12 - Yöneyem Araştırmasına Giriş



INDUSTRIAL ENGINEERING

Prof. Dr. Kenan ÖZDEN

Referees

- | | |
|------|--|
| 2020 | 2020 February- 2021 December International Journal of Engineering Technologies (IJET) : Chief Editor |
| 2020 | Journal of Industrial Engineering; " Solution Approach for The Problem of Workers' Partly or Fully Allocations to Workstations by Health And Skill Levels" : " Referee |
| 2020 | "Regional Directorate Election Suggestion for ÇAYKUR Enterprises" : Referee |

INDUSTRIAL ENGINEERING



Prof. Dr. Cemalettin KUBAT

Background

He was born in Sivas in 1952. He completed his primary and secondary education in the city where he was born. He completed his military service in 1974 as a graduate of the Department of Mathematics at Ankara University and entered Sakarya State Engineering and Architecture Academy as a Mathematics Assistant in 1978. In 1979, he successfully completed his Master's Degree from Ege University Computer Applied Statistics Department, and in 1993 from Istanbul University Social Sciences Institute, on the Application of Nonlinear Purpose Programming to the Styrene Unit as a Petroleum Unit, and received his Doctorate in 1993. After this year, with the transformation of the Academy to Sakarya University, he took a position in the Industrial Engineering Department. He was appointed as Professor in 2012. He took part in the establishment studies of Sakarya University, especially the founding Presidency of the Computer Engineering Department, the establishment of the Information Processing Department, the Strategic and Quality Coordinator of SAÜDEK, the Organization Presidency of the IMSS-Intelligent Manufacturing Service Systems Symposiums, which are still being held periodically every 2-3 years starting from 1996, Industrial Engineering He served as the Head of the Department, Member of the Science Board of Directors, and Member of the Ethics Committee. In 2006 and 2010, he was the coordinator of Sakarya University's Excellence Award among Turkish Public Institutions. He managed the process of gaining the International Accreditation MÜDEK Accreditation of Sakarya University Industrial Engineering Department since 2009. Between 2004-2011, he took part in the teams of 2 FP6 – 6th Framework European Union Projects named IPROMS and IWARD and made significant contributions to the successful completion of the projects. MATLAB: Artificial Intelligence and Engineering Applications, Artificial Intelligence Digital Systems and Applications, Internet of Things (IoT) Applications for Enterprise Productivity, Department name:(Internet of Things in Disaster Logistics Productivity), Enterprise Performance Management Models, Methods and Historical Development, Industry He has also authored chapters in books and books entitled Introduction in Engineering. He worked as a referee and editor in national and international journals. He has directed master's and doctoral theses on Optimization, Supply Chain Management, Strategic Planning, Management Information Systems, Artificial Intelligence, Virtual Laboratory Management, lectured, published more than 100 papers and articles in national and international symposiums, congresses and journals. He was editor of SCI indexed international journals. He is still working as the Head of Aeronautical Engineering Department at Istanbul Gelisim University.

Contact

 ckubat@gelisim.edu.tr

Research Areas:

Optimization

Supply Chain Management

Strategic Planning

Management Information Systems

Artificial Intelligence

Virtual Lab Management

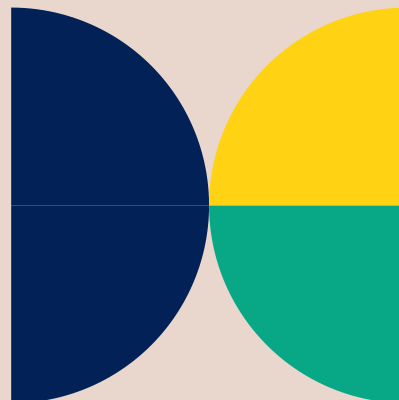
Areas of Expertise:

Production and Marketing

Book & Book Chapters

2022

Endüstri Mühendisliğine Giriş Temel Bilgiler Elkitabı
Chapter 14 - Stok Yönetimi



INDUSTRIAL ENGINEERING



Prof. Dr. Yılmaz ÖZKAN

Background

He graduated from Istanbul University Faculty of Economics in 1974 and from Istanbul University Institute of Business Economics in 1975. He completed his postgraduate studies at the Faculty of Business Administration in 1978. He worked as a specialist in the Ministry of Industry and Technology, Incentive and Implementation Department, and as a labor inspector in the Ministry of Labor. He received the title of "Doctor of Business Administration" at Istanbul University in 1984. He became Associate Professor in 1995 and Professor in 2001. He started his academic career in the Department of Industrial Engineering. He worked in the departments of Business and Labor Economics. Yılmaz Özkan, a lecturer at Istanbul Gelisim University, Department of Industrial Engineering; He continues his studies on Applied Statistics, Total Quality Management, Statistical Process Control, Scientific Research Techniques, Quality Management Systems. SPSS, MINITAB and AMOS are software of interest. There are 25 master's and 13 doctoral theses completed under his supervision, and 2 doctoral students continue their thesis studies. Yılmaz Özkan established the "Flexible Relative Evaluation System" with the "Relative Balance Formula" he developed. The system is used in Sakarya University and many universities without any problems.

Contact

 yozkan@gelisim.edu.tr

Research Areas:

Scale Development

Relative Evaluation System

Excel Supported Data Analysis

Areas of Expertise:

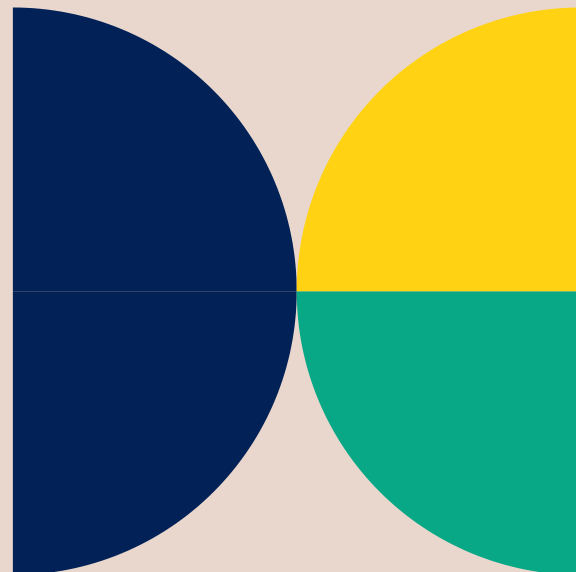
Applied Statistics

Total Quality Management

Statistical Process Control

Scientific Research Techniques

Quality Management Systems



https://scholar.google.com/citations?user=bM_wQusAAAAJ&hl=en

INDUSTRIAL ENGINEERING




Assist. Prof. Dr. Didem YILMAZ

Background

She graduated from ITU Sakarya Engineering Faculty Industrial Engineering in 1986. She received her Master's Degree from Istanbul University, Faculty of Business Administration, Department of Production Management in 1989 and her doctorate from the same Department of the same University in 1997. In addition to all Production Management subjects, she has national and international papers and articles on statistics, statistical Quality Control, Engineering Economics, Maintenance Management, Reliability, Risk Analysis, etc. Between 1987 and 2009, she worked as a lecturer at Kocaeli University, Faculty of Engineering, Department of Industrial Engineering. Between 2010-2011, she worked as a faculty member at Yenyüzyl University, Faculty of Engineering and Architecture, Department of Industrial Engineering. And between 2010-2012, she worked as DSU in the "Quality Management" master's program at Kultur University. Since 2012, she has been working as a lecturer at Istanbul Gelişim University, Faculty of Engineering and Architecture, Department of Industrial Engineering.

Contact

 dyilmaz@gelisim.edu.tr

Research Areas:

Statistics

Statistical Quality Control

Engineering Economics

Maintenance Management

Supply Chain management

Reliability

Risk Analysis

Areas of Expertise:

Production Management

Publications

2022

Heliyon Journal; "A New Hybrid Risk Assessment Method Based on Fine-Kinney and ANFIS methods for Evaluation Spatial Risks in Nursing Homes" has been published.

Book & Book Chapters

2022

Endüstri Mühendisliğine Giriş Temel Bilgiler Elkitabı:
Chapter 1 - Genel Olarak Endüstri Mühendisliği
Chapter 8 - Tedarik Zinciri Yönetimi

Projeler

2021

In 2021, the project named "Calculation of Vulnerability of 3 Neighborhoods of Avclar District (KAP-210220-HSK)" has been studied for 18 months.

Referees

2020-
2023

İGU Journal of Social Sciences
Suleyman Demirel University Journal of Natural and Applied Sciences



<https://scholar.google.com/citations?user=cTzpWwQAAAAJ&hl=tr>

INDUSTRIAL ENGINEERING



Assist. Prof. Dr. Binnur GÜRÜL

Background

She graduated from Istanbul Technical University, Faculty of Business Administration, Department of Management Engineering in 2003. She received her Master's degree from Istanbul Aydın University, Institute of Social Sciences, Department of Business Administration in 2013. Between 2014-2019, he graduated from Istanbul Gelişim University Social Sciences Institute Business Doctorate Program and received the title of Doctor. She completed her second Ph.D. degree at Istanbul University-Cerrahpaşa Faculty of Engineering, Department of Industrial Engineering between 2015 and 2021. Between 2020-2022, she has worked Istanbul Gelisim University Istanbul Gelisim Vocational School Department of Transportation Services - Flight Operations Management program. Since 2022, she has been working at Istanbul Gelisim University Industrial Engineering Department. She is married and has a child.

Contact

 bgurul@gelisim.edu.tr

Research Areas:

Manufacturing and Service Systems

Manufacturing Management Systems

Production Management

Supply Chain Management

Decision Making

Decision Theory

Quantitative Decision Making Methods

Optimization

Fuzzy Logic

Areas of Expertise:

Quality Management

Strategic Management

Management Organization

Organizational Behavior

Publications

- | | |
|------|---|
| 2020 | International Journal of Social Humanities Sciences Research (JSHSR); "Algılanan Örgütsel Desteğin İşgörenlerin Performansına Etkisi Ve Buna Yönelik Bir Araştırma" has been published. |
| 2020 | Journal of Social and Humanities Sciences Research; "Dönüşümcü Liderlik Davranışlarının Örgüt İklimine Etkisi ve Buna Yönelik Bir Araştırma" has been published. |
| 2020 | Journal of Social and Humanities Sciences Research (JSHSR) dergisinde "Örgüt Kültürünün İş Tatmini Üzerindeki Etkisi ve Buna Yönelik Bir Araştırma" has been published. |
| 2020 | International Journal of Social and Humanities Sciences Research (JSHSR) dergisinde "Personel Güçlendirmenin Örgütsel Bağlılığa Etkisi ve Buna Yönelik Bir Araştırma" has been published. |
| 2020 | International Journal of Social and Humanities Sciences Research (JSHSR); "Etik Liderlik Davranışlarının Çalışanların Örgütsel Bağlılıklarına Etkisi" has been published. |
| 2021 | Journal of Social and Humanities Sciences Research; "Hastane Yöneticilerinin Yöneticilik Tarzlarının Çalışanların İş Tatmini Ve Örgütsel Bağlılık Düzeylerine Etkisi" has been published. |
| 2022 | The International Journal Of Business & Management; "The Relationship between Organizational Trust and Job Satisfaction and a Research" has been published. |
| 2023 | Journal of Business of Research-Turk; "Effect of Japanese Lean Manufacturing Model on Employee Productivity in Turkish Manufacturing Industry: An Application in Automotive Industry" has been published. |

<https://scholar.google.com/citations?user=E8zlmzIAAAAJ&hl=tr>

INDUSTRIAL ENGINEERING

Assist. Prof. Dr.Binnur GÜRÜL

Book & Book chapter

- 2021 Sürdürülebilirlik İçin Akademik Araştırmalar - II; "Gıda Sektöründe Sürdürülebilir Tedarik Zinciri Yönetimi Üzerine Literatür Taraması" has been published.
-

Referees

- 2020-
2023
- Aircraft Engineering
 - IGU Journal of Social Sciences
 - Istanbul Aydın University Journal of Social Sciences
 - International Journal of Industrial Engineering: Theory, Applications and Practice
 - Sigma Journal
 - Business & Management Studies: An International Journal
 - Optimum Journal of Economics and Management Sciences
 - Nevşehir Hacı Bektaş Veli University Journal
-

INDUSTRIAL ENGINEERING



Assist. Prof. Dr. Seda ERBAYRAK

Background

She graduated from the Eastern Mediterranean University Industrial Engineering Department undergraduate program in 2009. In 2012, She received her master's degree from Atatürk University, Institute of Science, Industrial Engineering Department. She completed his PhD in 2022 at Yıldız Technical University, Institute of Science and Technology, Department of Industrial Engineering and received the title of Doctor. She worked as a Research Assistant at the Department of Industrial Engineering at Istanbul Gelisim University between 2013-2022. Since 2022, she has been working at Istanbul Gelisim University Industrial Engineering Department. She has international papers and articles on optimization, fuzzy logic, heuristic algorithms, artificial intelligence. She is married and has a child.

Contact

 serbayrak@gelisim.edu.tr

Research Areas:

Optimization

Fuzzy Logic

Heuristics Algorithms

Artificial intelligence

Areas of Expertise:

Industrial Engineering

Publications

- | | |
|------|--|
| 2020 | Journal of Engineering Research; "Determination of the impact damage threshold point of the composite material using fuzzy-based taguchi method" has been published. |
| 2021 | Computers & Industrial Engineering; "Multi-objective 3D Bin Packing Problem with Load Balance and Product Family Concerns" has been published. |

Projects

- | | |
|-----------|--|
| 2020-2022 | Investigation of Occupational Tension and Stress in Working Life in Istanbul Province BAP 2020-2022 - Researcher |
|-----------|--|



<https://scholar.google.com.tr/citations?user=9SPg-qUAAAAJ&hl=tr>

INDUSTRIAL ENGINEERING




Assist. Prof. Dr. Semanur SARIÇAM

Background

She graduated from Ankara University Statistics Department undergraduate program in 2016. She completed her master's degree at Mimar Sinan Fine Arts University, Department of Statistics between 2016-2019. Between 2019-2022, she completed her doctorate degree with her thesis titled "New Approaches on Partial Least Squares Method in Functional Regression Models" at Mimar Sinan Fine Arts University, Department of Statistics. During her doctorate, she took part in the TÜBİTAK project as a graduate scholar. As of 2023, she works as a member at Istanbul Gelişim University, Faculty of Engineering and Architecture, Department of Industrial Engineering.

Contact

 ssaricam@gelisim.edu.tr


Research Areas:

Statistics




Areas of Expertise:


Functional Data Analysis



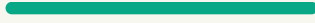
Theoretical Statistics



Applied Statistics



Statistical analysis



<https://scholar.google.com/citations?user=YwgBsVkAAAAJ&hl=tr>

INDUSTRIAL ENGINEERING




Research Assistant Nurdan TÜYSÜZ

Background

She graduated from Konya Selcuk University, Faculty of Engineering, Department of Industrial Engineering in 2013. She graduated from Istanbul University, Institute of Science and Technology, Department of Industrial Engineering in 2017 with a master's degree. Since 2018, she has been continuing her education in the PhD program of the Industrial Engineering Department of the Graduate Education Institute of Istanbul Technical University. She has been working as a Research Assistant in the Industrial Engineering Department of Istanbul Gelisim University since 2016. She has international papers, articles and book chapters on subjects such as fuzzy logic, decision making and simulation. She is married and has a child.

Contact

 nyildiz@gelisim.edu.tr

Research Areas:

Fuzzy Logic

Decision Making

Simulation

Areas of Expertise:

Industrial Engineering

Publications

- 2020 Journal of Intelligent And Fuzzy Systems; "Evaluating Social Sustainable Development Factors Using Multi-Experts Z-fuzzy AHP" has been published.
- 2020 Journal of Soft Computing; "A novel multi-criteria analysis model for the performance evaluation of bank regions: an application to Turkish agricultural banking" has been published.
- 2020 Journal of Intelligent and Fuzzy Systems; "CODAS method using Z-fuzzy numbers" has been published.
- 2022 Journal of Multiple-Valued Logic and Soft Computing; "COVID-19 Risk Assessment of Occupations Using Interval Type 2 Fuzzy Z-AHP & TOPSIS Methodology" has been published.
- 2023 Journal of Informatica; "A novel Z-Fuzzy AHP&EDAS Methodology and Its Application to Wind Turbine Selection" has been published.

Book & Book Chapters

- 2021 Energy Systems Evaluation (Volume 2) Multi-Criteria Decision Analysis; "Multi-criteria Assessment of Sustainability for Energy Systems Under Uncertainty: Grey-Based Approach" has been published.



<https://scholar.google.com.tr/citations?user=QZgS4wwAAAAJ&hl=tr>

INDUSTRIAL ENGINEERING



Research Assistant Duygu TÜYLÜ

Background

She graduated from Kocaeli University, Faculty of Engineering, Industrial Engineering undergraduate program in 2018. In 2023, she completed her master's degree in Istanbul University, Graduate Education Institute, Industrial Engineering Department. Since 2023, she has been continuing her doctorate education in Yıldız Technical University, Institute of Science, Industrial Engineering Department. She worked as an Industrial Engineer at Kotto Textile in 2019-2023. As of 2023, she has been working as a Research Assistant at Istanbul Gelisim University, Department of Industrial Engineering. In her master's thesis, she examined lean transformation success factors with fuzzy cognitive mapping method. There is an article on the same subject.

Contact

 dtuylu@gelisim.edu.tr

Research Areas:

Data Mining



Scheduling

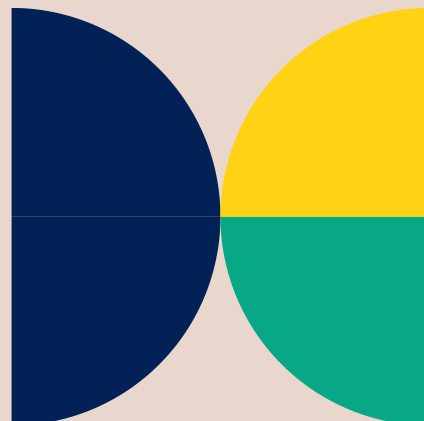


Fuzzy Logic



Areas of Expertise:

Industrial Engineering





EVENTS



In 2022, a meeting event of the student club was held with the participation of Prof. Dr. Tarık ÇAKAR, Prof. Dr. Kenan ÖZDEN and Assist. Prof. Dr. Didem YILMAZ.

A cooperation meeting was held on 09.06.2022 with Industrial Engineering Department Partner Company (Truva Tekstil) Representatives. At this meeting, the expectations of the industry from IGU Industrial Engineering graduate students and the expectations of the Industrial Engineering Department from the industry were discussed.



In the meetings held with external stakeholders in 2022, ideas were exchanged on university-industry cooperation.



In the meetings held with external stakeholders in 2022, ideas were exchanged on university-industry cooperation.





Graduation Project Defense Exams of Industrial Engineering Department final class students were successfully held between 13-14 June 2022. Each student presented and defended his/her Graduation Projects in an average of 20 minutes in front of the jury, consisting of Prof Dr Tarık Çakar, Prof Dr Kenan Özden, Prof Dr Cemalettin Kubat and Assist Prof Didem Yılmaz.

Some of "Graduation Design Project" posters between 2020-2023:

MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ
ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ
BITİRME TASARIM PROJESİ

3000 Metre İrtifaya Sahip Uydur Roketin Tasarlanarak Fizibilite Çalışmalarının Yapılması

Özet:
Bu çalışmada, uydur roketinin tasarım aşamaları anlatılmış ve teknik fizibilite etüdü yapılmıştır. "Electre" yöntemi ile optimum verileri sağlayan malzeme seçimi yapılmıştır. OpenRocket Simulation programı vasıtasıyla simülasyonlar yapılmıştır. Çalışmanın son aşamasında uçuş analizi yapılmıştır.

Önemli Sonuçlar:
-Roketin kararlılığı 1,5-3 arasında olmalıdır.
-Roketin ağırlığı minimum düzeyde tutulmalıdır.
-İrtifaya uygun burun konisi seçilmelidir.
-Roketin yere düşüş hızı 9 m/s hızdan düşük olmalıdır.
-Haberleşmenin sağlıklı yapılabilmesi için "Faraday kafesi" oluşmamasına dikkat edilmelidir.

Hazırlayanlar: Dilara ŞAHİN, Büşra KEKEÇ
Danışman: Prof. Dr. Kenan ÖZDEN

Mühendislik ve Mimarlık Fakültesi
Endüstri Mühendisliği Bölümü
Bitirme Tasarım Projesi

AKİŞ TİPİ ATÖLYELERDE MAKSİMUM AKIŞ ZAMANININ TAVLAMA BENZETİMİ METODU KULLANILARAK OPTİMİZASYONU VE UYGULAMASI

Uygulamanın Tasarımı

Algoritmaların Detaylı Raporları

Çözeltme, eldeki işlerin bir grup kaynağa atanmasıdır. Bu atama işlemi öyle olmalıdır ki tamamlanan en son için süresi minimum olmalıdır. Bu atama işlemi için geliştirilen algoritmalar: CDS - RAP - PALMER - GUPTA - NEHİ. Akış tipi atölye çözeltme problemi için hazırlanan bu program algoritmaların tamamını çözer. Tavlama Benzetimi kullanarak en iyi sonuçları daha iyi bir sıralama ve sonuç sunar. Çözümün tüm sonuçları detaylı verilir. Yazılım tüm işletim sistemlerinde çalışır. Problem için makine ve iş sayısı sınırsızdır.

Hazırlayan: Mehmet Enes KORKMAZ
Danışman: Prof. Dr. Tarık ÇAKAR

Mühendislik ve Mimarlık Fakültesi
Endüstri Mühendisliği Bölümü
Bitirme Tasarım Projesi

TEDARİKÇİ SEÇİMİ İLE SİPARİŞ MİKTARI BELİRLENMESİNDE ÇOK ÖLÇÜTLÜ VE ÇOK AMAÇLI KARAR VERME BÜTÜNLEŞİK MODELİ KULLANILMASI VE BİR İŞLETMEDE UYGULANMASI

Özet
Bu çalışmada, önemli karar verme problemlerinde bir olan tedarikçi seçimi ve sipariş miktarı belirlenmesi konusunda Çok Ölçütlü Karar Verme yöntemleri kullanılmasıyla doğru tercihlerin yapılarak işletimin bulunduğu pazarda, rekabet ortamı içerisinde öne çıkarılması hedeflenmiştir. Tedarikçi seçiminde Analitik Hiyerarşi Prosesi, sipariş miktarı belirlenmesinde ise Hedef Programlama kullanılmıştır.

Yöntem
Bu projede, AHP Yöntemi ile Tedarikçi ağırlıkları bulunmuş ve MS Excel' de çözümlenmiştir. Sipariş miktarı belirlenirken kurulan Öncelikli Hedef Programlama modeli çözümlenmiş QM Programından yararlanılmıştır.

Önemli Sonuçlar
- Her tedarikçinin geliştirdiği ve ön plana çıktığı ölçütler olduğu ve ölçüt bazında tedarikçilerin değerlendirilmesiyle öncelik sıralamasının Tedarikçi 2, Tedarikçi 4, Tedarikçi 1 ve Tedarikçi 3 olduğu tespit edilmiştir.
- Sipariş miktarlarının, Tedarikçi 2'den 30 birim, Tedarikçi 1 ve Tedarikçi 4'ten 15 birim, Tedarikçi 3'ten ürün alınması gerektiği bulunmuştur.

Tedarikçiler	Tedarikçi Ağırlıkları
Tedarikçi 1	0,232
Tedarikçi 2	0,292
Tedarikçi 3	0,196
Tedarikçi 4	0,280

Hazırlayan: Selin TUNA
Danışman: Prof. Dr. Kenan ÖZDEN

Mühendislik ve Mimarlık Fakültesi
Endüstri Mühendisliği Bölümü
Bitirme Tasarım Projesi

Karayolu Taşımacılığında Yüklemin Lojistik Ağ Tasarımı Üzerindeki Etkisi Ve İşletmelerde Lojistik Ağ Tasarımının Uygulanması

Lojistik ağ tasarımı, işletmelerin ürün kapasitesini artırmada, işletmelerin piyasaya daha dayanıklı hale gelmelerinde, müşteri gereksinimlerini karşılamak için zamanında teslim, depolama, taşıma, satın alma gibi değişik faaliyetleri ve satın alımları en düşük maliyetle yerine getirmektir.

Lojistik ağ zincirindeki tüm aşamalar arasında gerçekleştirilen hareketlerin farklı adımların bir arada çalışması, bir adet direkt taşıma olmaksızın direkt adan taşıma tekniği ile taşıma maliyetlerinin minimize edilmesini amaçlayan bir yöntemdir. Bu yöntemde, işletmelerin ve dağıtım merkezlerinin seçimine dayanarak, satın alınan ürünlerin en düşük maliyetle teslim edilmesi amaçlanmaktadır.

Hazırlayan: Ayetullah ESER
Danışman: Prof. Dr. Tarık ÇAKAR



On Monday, October 3, 2022, "Department Orientation" has been held for the first-year, horizontal and vertical transfer students who have newly registered to our university to introduce our department, faculty, university, the services, and opportunities they will benefit from, and to make them feel that they are part of the IGU family.

Assist. Prof. Dr. Binnur Gürül introduced our department and university to the students of Üsküdar Derya Öncü High School on 13 December 2022.



A morale concert was organized for the nursing home under the leadership of Istanbul Gelisim University Industrial Engineering Department Student Club.



ISTANBUL
GELİSİM
ÜNİVERSİTESİ

Seminer

**KARİYERİN GÜZEL OLACAK
"İŞE ALIM ve MÜLAKAT TEKNİKLERİ"**

KONUŞMACILAR

AYŞEGÜL YILMAZ	Tarih	Saat
VEYSEL GÜNDÜZ	20.4.2021	13.00
	Salı	15.00

960 x 960

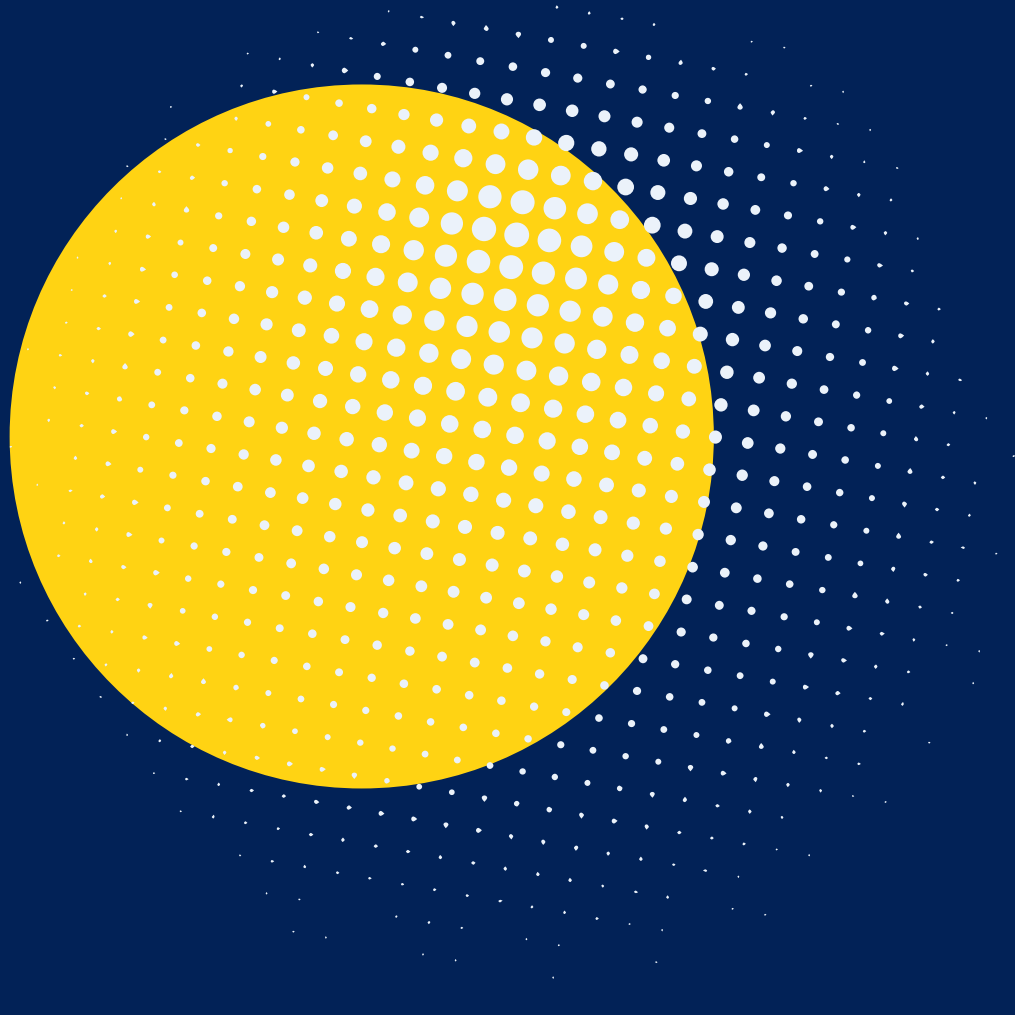
gelisim.edu.tr

QR Code

Google Meet

960 x 960

On Tuesday, April 20, 2021, an online seminar on "Recruitment and Interview Techniques" was held under the leadership of the Industrial Engineering Department Student Club. This event brought together our students with sector representatives, and enabled them to gain different perspectives on career goals, CV preparation, interview techniques, etc.



GRADUATES



GRADUATES

Mohammed Beşir KEBBE

2021 graduate

Omega Pharma Istanbul Coordinator

"The fact that Industrial Engineering is one of the largest engineering departments always opens your horizons and the breadth and possibilities in business fields never end.

After graduating from the Department of Electronic Communications Technology at Marmara University, transferring to the Department of Industrial Engineering at Istanbul Gelişim University was one of the best decisions I made. The strong academic staff, the quality of the education provided and the fact that the department has international accreditation (ABET "Accreditation Board for Engineering and Technology") strengthened the right decision I made.

In addition to education, the central location of the campus and its active areas allow you to enjoy university and youth life when you take part in many social clubs.



Ramazan YIKICI

2019 graduate

Turkish Airlines

Cargo Operations Specialist

I can feel the results of the Industrial Engineering education that I graduated in 2019, the homework and the returns of the projects I have done, in the spring of 2023, approximately 4 years after my graduation. Throughout my education life, I took many lessons from very valuable teachers that I was not sure where I could use them in the future. Now I can see better that my Industrial Engineering education at IGU, the internships I have done and the projects I have created have enabled me to identify the deficiencies in processes and workflows with high optimization skills, always try to keep themselves well in terms of business ethics and business ethics, produce solutions and develop new processes in detail. turned it into a process/business doctor that can build The studies and group projects I was encouraged to participate in throughout my university life; It increased my communication skills and helped me to build faster, more agile and understandable communication channels with my superiors and teammates in the business world. I will always remember my university days as a very precious and valuable four years.

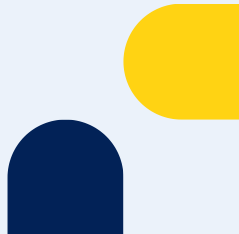
GRADUATES

Ender KÖKSOY

2017 graduate

Sempa Pompa Makina A.S. Project Sales Engineer

After graduating from Istanbul University Mechanical Technologies Vocational School, I transferred to IGU Engineering and Architecture Faculty Industrial Engineering Department with DGS. Here, I received a good education under the leadership of our expert teachers in terms of knowledge and experience in the field. Currently, I am the project sales engineer of a company that manufactures pumps for industrial and building technologies, and I also have an engineering company. I sell centrifugal pumps in our process and standard production for heavy industry to schools, dormitories, hospitals, agricultural irrigation, dams, toki, provincial and district municipalities. When I was studying, I didn't care much about school, but when I started working in the market later on, I realized that Prof.Dr. Kenan Özden and other teachers were preparing us for the market, the important thing is the one-to-one consultations, information conveyed to the students and good dialogues that the educators create with the students, rather than the school. I would like to thank my esteemed professors who gave education in our department courses and never stopped supporting us.



GRADUATES

Cemil ERGİNYAVUZ

2021 graduate

Taha Giyim / LC Waikiki Capacity Planning Engineer

Industrial Engineering is a multidisciplinary engineering branch that develops and implements systems to optimize factors such as quality, efficiency, cost, flexibility of production and service systems. Since the Industrial Engineering department has a very wide sector and job description, it is important to keep yourself up to date. On behalf of my department, my favorite thing is our academic program, basically what they teach us is decision making, that is, how we can make the right decision using real life problems, mathematics and analytical methods, and ensure that these decisions are fulfilled and turned into action. I had the chance to put the theoretical education infrastructure I gained in the Department of Industrial Engineering into practice in my business life. I am currently working as a Capacity Planning Engineer at Taha Giyim/LC Waikiki.

I would like to express in advance how lucky our friends at Istanbul Gelişim University are, who want to choose this place in the future. Our department has ABET accreditation, which only 8 of our country's universities have. With ABET accreditation, many universities, especially in the USA, require that the license be obtained from an ABET accredited institution as a condition for admission to master's and doctoral programs. Similarly, many private sector organizations abroad, including highly prestigious institutions such as NASA and BOEING, put ABET accreditation as a prerequisite for recruitment. It is a special and prominent program owned by an Industrial Engineering student, which I believe greatly increases the prestige of our faculty. In addition, one of the professors of our department, Prof. Dr. Tarik ÇAKAR, Prof. Dr. Kenan ÖZDEN, Dr. Instructor Member Didem YILMAZ ÇAPKUR should have no doubt about the contributions of my professors to all your academic and social experiences. In addition to theoretical and practical information, my professors' introduction of the Department of Industrial Engineering as a way of life and integrated into life will be my guide no matter what field I work in my business life. I would like to express my gratitude and respect to my university and my professors for their contributions to me.



GRADUATES

Özge DEMİR

2022 graduate

Business Analyst at Türkiye Finans Katılım Bank

İFrom the moment I started working at Türkiye Finans Katılım Bankası, where I worked as a business analyst, I had the opportunity to take part in big projects. I see myself as someone who graduated from school but did not close the door to learning. This is because of the contributions of Istanbul Gelişim University and my valuable teachers. I am very pleased and happy with where I am, thanks to the valuable knowledge and experience of my professors, the time they spare for us throughout our engineering education, and the fact that they are always with us.

If I were to go back to the preference period again, I would prefer the Department of Industrial Engineering at Istanbul Gelişim University. Both the interest of my teachers and the quality of my education are the main reasons for this. I can clearly say that I received a good academic education. In my education life, my dear teacher Cansu Noberi's teaching in a way that I will never forget that success cannot be achieved without effort, and my esteemed Prof. Dr. Kenan Özden's unique expression of industrial engineering and his experiences were among my learnings that shed light on my path and will continue to do so. I would like to thank all of my industrial engineering professors for the quality education they provide and the interest they show us. I can say that Istanbul Gelişim University's success in engineering education and the quality of education have guided my life.





**FACULTY OF ENGINEERING AND
ARCHITECTURE**

CIVIL ENGINEERING

CIVIL ENGINEERING

Assist. Prof. Dr. Ahmad Reshad NOORI
The Head of Civil Engineering Department



Dear readers,

Civil Engineering is one of the earliest branches of engineering in the world and it is involved in the construction works as well as the basic requirements of people such as housing and transportation, in addition with environmentally friendly water supply and waste water removal. In addition, intensive research and development activities are being carried out in order to popularize the smart transportation systems (ITS) by using the developing technology to decrease traffic jam and to increase transportation comfort due to the increase in population and vehicle ownership.

With the spread of Internet technology, smart homes, smart roads, smart vehicles and self-driving cars will continue to have a larger presence in our lives. Civil engineers closely monitor current and developing technologies. One of the most important reasons to prefer Civil Engineering is the wide range of its working area and it will continue to serve as long as human beings exist.

Civil Engineering Department in Istanbul Gelisim University was established in 2011 and had its first graduates in 2015. Our graduates are employed in both public and private sectors. In addition, the department offers master's and doctoral programs. In the civil engineering department, there are construction materials, hydraulic and geotechnical laboratories for students and R & D studies. We continue to improve our laboratories on a project basis. R & D projects are carried out in coordination with other departments. As the Department of Civil Engineering in Istanbul Gelisim University, we put a great effort to equip our students with the latest technology both for today and for future.

Training provided at civil engineering department will improve continuously by considering the requests from students, advisory board and our graduates.

The Head of Civil Engineering Department
Assist. Prof. Dr. Ahmad Reshad NOORI

CIVIL ENGINEERING



GENERAL INFORMATION

Istanbul Gelisim University the Department of Civil Engineering, which aims to train environmentally sensitive, follow-up and implement developments, has gained the ability to conduct joint studies with the team, and aims to train civil engineers with ethical values, took its first students in the 2011-2012 academic year.

The curriculum of Istanbul Gelisim University the Department of Civil Engineering was created in line with the Bologna Process according to ECTS (European Credit Transfer System) and gave its first graduates in the 2015-2016 academic year. Bologna Process, which aims to create a European Higher Education Area, is a reform process created and maintained in cooperation with 47 member countries and international organizations in these countries. Turkey, in 2002 and joined the Bologna Process. Theoretical and practical parts of the courses are done in suitable classrooms, civil engineering laboratories or computer laboratories.

Civil Engineering Department was accredited by the international accreditation organization ABET in 2021 and became one of the 4 Civil Engineering departments in Turkey to be accredited by ABET. The aim of Civil Engineering Department is to provide its students with the knowledge and skills within industry structure planning, designing and constructing all kinds of buildings, dams, airports, bridges, roads, channels, pipelines, water treatment stations, tunnels, railways, metros and the like.

Civil Engineering is one of the oldest engineering branches of the world, which appeared with the transition of human to permanent settlement. Having become one of the important engineering branches in the light of the advanced technological and scientific developments, civil engineering has been in a constant development and motion through the changing life styles and expectations of the human kind.

Engineers carry out the planning, projecting, construction and auditing of all kinds of living spaces that you may imagine from residences to hospital buildings, dams to bridges, ports to water supply networks, shopping malls to schools as well as of service and industrial structures. Istanbul Gelisim University, Faculty of Civil Engineering has been raising such engineers that understand the requirements of their age, have the capacity to design human-sensitive, environment-friendly projects and successful in team-working.

Students of the Department of Civil Engineering receive basic courses like mathematics, chemistry, physics, geology, computer programs, etc. in the first year of their education and they begin to receive technical courses and design projects in fields covered by the civil engineering department as of the 2nd grade. The students who are granted with the internship opportunity are experiencing their theoretical knowledge in practice, as well. Some of the courses in the Department of Civil Engineering are performed at laboratories so as to ensure that practical training is provided to students. The curriculum of the Department of Civil Engineering was designed as per ECTS (European Credit Transfer and Accumulation System) in accordance with the Bologna Process.

CIVIL ENGINEERING

MISSION

Our mission is to prepare students for the future with both theoretical and practical knowledge, with full knowledge in the field and the ability to follow and apply scientific and technological developments with self-confidence and ethical values. The civil engineering education program provides students a capability to model and solve real world technical problems with computational approaches. Mathematical thinking ability helps them to analyze engineering problems in an efficient manner. Our graduates can work in all fields related to civil engineering-aided automation.



VISION

To train and prepare a graduate with team spirit and who can take part in common projects, who think analytically and feel responsible towards society, who contribute to the development of civil engineering profession both nationally and internationally.

ACADEMIC STAFF



Assist. Prof. Dr.
Ahmad Reshad NOORI



Prof. Dr.
Nuri KURUOĞLU



Prof. Dr.
Mustafa KARAŞAHİN



Prof. Dr.
Abdullah Necmettin GÜNDÜZ



Assoc. Prof. Dr.
Suleiman KHATRUSH



Assoc. Prof. Dr.
Anıl NİŞ



Assist. Prof. Dr.
Yasin PAŞA



Assist. Prof. Dr.
Metin MEHMETOĞLU



Assist. Prof. Dr.
Mustafa NURİ

ACADEMIC STAFF



Assist. Prof. Dr.
Sajedah NOROZPOUR



Assist. Prof. Dr.
Mesut BARIŞ



Assist. Prof. Dr.
Hasan Emre OKTAY



Assist. Prof. Dr.
Aylin Ece KAYABEKİR



Assist. Prof. Dr.
Yosra M.A. TAMMAM



Assist. Prof. Dr.
Gökhan Kazar



Assist. Prof. Dr.
Hamit ÖZTÜRK



Assist. Prof. Dr.
Mahmut TANER



Res. Assist.
Oğuzhan Murat HALAT



Res. Assist.
Fahrettin KURAN



Res. Assist.
Muhammed Emre ULUSAN



Res. Assist.
Bilge Sultan DEMİRTAŞ

CIVIL ENGINEERING

UNDERGRADUATE PROGRAM

Civil Engineering Department provides education in Turkish and English. Our curriculum is accredited by ABET and consists of 8 semesters. The curriculum includes basic science courses, departmental courses, departmental elective courses, social elective courses, and non-departmental elective courses, as well as 2 summer internships. Along with the compulsory courses, the students are provided with basic information about the profession, while the elective courses are aimed at taking courses related to the interests of the students.

CIVIL ENGINEERING

MASTER PROGRAM

In our Civil Engineering Thesis and Non-Thesis Master's Programs, we train high civil engineers needed in the sector and contribute to the construction sector academically and in the sector. In this direction, the aim of Civil Engineering Master's Programs is to train engineers specialized in construction, transportation, and hydraulics theoretically and practically with knowledge and skills in fields such as displacement-based design, scientific research techniques, earthquake engineering, intelligent transportation systems planning, architectural structure, and construction.

CIVIL ENGINEERING

PHD PROGRAM

Civil Engineering Ph.D. Program, which is accepted to those who have completed a master's program in civil engineering or related fields, is a department that provides in-depth knowledge in the relevant fields of civil engineering and expertise at international standards, and the participants of the program contribute to scientific knowledge in this field with the research and projects they carry out. Students gain expertise in fields such as hydraulic engineering, transportation engineering, construction technologies, building materials and structural engineering, earthquake engineering, and soil engineering. The purpose of the program; with the advanced engineering knowledge and research experience they have gained, it is to train graduate engineers who can offer original solutions to problems that have not been solved before and can use their professional knowledge and scientific data while searching for solutions.



ACADEMIC CV AND SCIENTIFIC STUDIES

CIVIL ENGINEERING



Contact

arnoori@gelisim.edu.tr

Assist. Prof. Dr. Ahmad Reshad NOORI

Background

Dr. Ahmad Reshad NOORI was born in Wardak/Afghanistan in 1987. He completed his primary, secondary and high school education in Kabul. He graduated from Çukurova University, Faculty of Engineering and Architecture, Department of Civil Engineering, and Department of Environmental Engineering, which he started in 2007, with a double major in 2011. He received his master's degree in 2013 and his doctorate degree from Çukurova University in 2019. He also graduated from Anadolu University, Faculty of Business Administration, Business Administration Department in 2019. He was supported by the Turkish Prime Ministry during his undergraduate education, by the Presidency for Turks Abroad and Related Communities during his master's education, and by the Scientific and Technological Research Council of Türkiye during his doctoral studies.

Academic and Administrative Experience

Dr. Ahmad Reshad NOORI was appointed as an Assistant Professor of Civil Engineering (English) at Istanbul Gelişim University in 2019. Between 2020 and 2022, he worked as the social media manager of the faculty of engineering and architecture. He was appointed as the deputy head of the Department of civil engineering in March 2021. He has been serving as the head of the department since August 2021. In 2023, he was elected as a board member of the environmental urbanism and earth sciences application and research center.

Research Fields

Solid Mechanics

Structural Mechanics

Numerical Modeling

Publications

2022

NOORI AHMAD RESHAD , "Tamamlayıcı Fonksiyonlar Yöntemi ile Fonksiyonel Derecelenmiş Sandviç Dairesel Plakların Eğilme Analizi" ,Çukurova Üniversitesi Mühendislik Fakültesi Dergisi ,vol.37 ,pp.673 -683 ,2757-9255 ,2022

AL-ITBI Sura Kareem Abbas, NOORI AHMAD RESHAD , "Influence of Porosity on the Free Vibration Response of Sandwich Functionally Graded Porous Beams" ,Journal of Sustainable Construction Materials and Technologies ,vol.7 ,2458-973X ,2022

AL-ITBI Sura Kareem Abbas, NOORI AHMAD RESHAD , "Finite Element Analysis for the Static Response of Functionally Graded Porous Sandwich Beams" ,International Journal of Engineering Technologies IJET ,vol.8 ,2149-0104 ,2022

2021

DOORI Silda Ghazi, NOORI AHMAD RESHAD , "Finite Element Approach for the Bending analysis of Castellated Steel Beams with Various Web openings" ,ALKÜ Fen Bilimleri Dergisi ,vol.3 ,pp.38 -49 ,2667-7814 ,2021

TEMEL BEYTULLAH, ASLAN TİMUÇİN ALP, NOORI AHMAD RESHAD , "In-plane vibration analysis of parabolic arches having a variable thickness" ,International Journal of Dynamics and Control, 2195-268X",2195-2698 ,2021

CIVIL ENGINEERING

Assist. Prof. Dr. Ahmad Reshad NOORI

Publications

2021

NOORI AHMAD RESHAD, TEMEL BEYTULLAH , "A powerful numerical approach for the axisymmetric bending response of shear deformable two-directional functionally graded (2D-FG) plates with variable thickness" ,Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science ,0954-4062,"2041-2983 ,2021

Rasooli Hasibullah, NOORI AHMAD RESHAD, TEMEL BEYTULLAH , "On the static analysis of laminated composite frames having variable cross section" ,Journal of the Brazilian Society of Mechanical Sciences and Engineering ,vol.43 ,pp.258 -258 ,1678-5878 ,2021

NOORI AHMAD RESHAD, ASLAN TİMUÇİN ALP, TEMEL BEYTULLAH , "Dynamic Analysis of Functionally Graded Porous Beams Using Complementary Functions Method in the Laplace Domain" ,Composite Structures ,vol.256 ,pp.113094 ,0263-8223 ,2021

2020

NOORI AHMAD RESHAD,RASOOLI Hasibullah,ASLAN TİMUÇİN ALP,TEMEL BEYTULLAH , "Fonksiyonel Derecelenmiş Sandviç Kirişlerin Tamamlayıcı Fonksiyonlar Yöntemi ile Statik Analizi" ,Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi ,vol.35 ,pp.1091 -1101 ,1019-1011 ,2020

ASLAN TİMUÇİN ALP,NOORI AHMAD RESHAD, TEMEL BEYTULLAH , "Fonksiyonel Derecelenmiş Malzemeli Kirişlerin Sönümlü ve Sönümsüz Zorlanmış Titreşim Analizi" ,Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi ,vol.35 ,pp.497 -509 ,1019-1011 ,2020

NOORI AHMAD RESHAD,ASLAN TİMUÇİN ALP,TEMEL BEYTULLAH , "Static Analysis of FG Beams via Complementary FunctionsMethod" ,European Mechanical Science ,vol.4 ,pp.1 -6 ,2587-1110 ,2020

TEMEL BEYTULLAH, NOORI AHMAD RESHAD , "A unified solution for the vibration analysis of two-directional functionally graded axisymmetric Mindlin-Reissner plates with variable thickness" ,International Journal of MechanicalSciences, vol.174 ,pp.105471 ,0020-7403 ,2020

NOORI AHMAD RESHAD, TEMEL BEYTULLAH , "On the vibration analysis of laminated composite parabolic arches with variable cross-section of various ply stacking sequences" ,MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.27, pp.1658 -1674, 1537-6494, 2020

CIVIL ENGINEERING

Assist. Prof. Dr. Ahmad Reshad NOORI

Projects

BP-180220- ARN

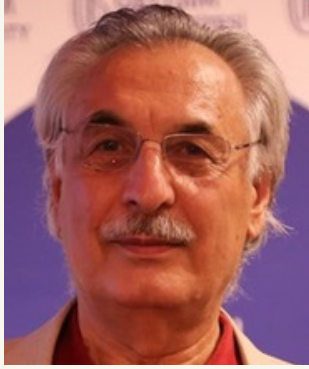
Refereeing Positions in Journals

- International Journal of Mechanical Sciences
- International Journal of Hydrogen Energy
- International Journal of Structural Stability and Dynamics
- Mechanics Of Advanced Composite Structures
- Iranian Journal of Science and Technology Transactions of Civil Engineering
- Materials
- Buildings
- Sustainability
- Applied Sciences
- Symmetry
- Journal of Marine Science and Engineering

Rewards and Successes

His Ph.D. thesis, "Axisymmetric bending and flexural vibration analysis of heterogeneous (FGM) circular plate" was a finalist for the 2019 ECCOMAS (the European Community on Computational Methods in Applied Sciences) Ph.D. Award nominated by the Turkish National Committee on Theoretical and Applied Mechanics (TCNTAM).

CIVIL ENGINEERING



Prof. Dr. Nuri KURUOĞLU

Background

Prof. Dr. Nuri Kuruoğlu was born in 1951 in Kırmacı village of Kastamonu Azdavay district. After primary school, he entered Kastamonu Göl Primary Teachers' School and after the fifth grade, he was selected and went to İzmir Higher Teachers' School preparatory class in 1967 and graduated from Ege University Mathematics Astronomy Department in 1972. He worked as a Mathematics Teacher at Elazığ Maden High School and was appointed as an Assistant to the Department of Mathematics at Dicle University in 1975. He transferred to Fırat University Faculty of Science in 1978 and completed his doctorate at Fırat University in 1980.

Contact

nkuruoglu@gelisim.edu.tr

Academic and Administrative Experience

Research Fields

Differential Geometry

Kinematics

Ruled Surfaces

Structural Mechanics

Mathematical Modeling

Applied Mathematics

With a scholarship from Fırat University, he was at Stanford University in the USA for his post-doctoral studies in 1981-1982, and then he was appointed as an Assistant Professor at İnönü University. He worked at Edinburgh University in England for three months in 1985 and at Leeds University in England for 3 months in 1986 as part of the British Council - TÜBİTAK joint Abroad Research Scholarship.

Dr. Kuruoğlu worked as Assistant Professor between 1986-1987, Associate Professor between 1987-1993, and as Professor between 1993-2004 at 19 Mayıs University. During his time at 19 Mayıs University, he worked as a High School Director, Deputy Dean, and Vice-Rector apart from various administrative duties. He retired on October 1, 2004.

He worked as a retired faculty member at Bahçeşehir University between 2004-2015 and served as the Dean of the Faculty of Arts and Sciences between 2011-2014.

Since 2015, he has been continuing his academic life as a Professor at the Faculty of Engineering and Architecture at İstanbul Gelişim University.

Dr. Kuruoğlu, apart from various academic and administrative duties, was the Director of the Institute of Science between 2015-2018. He has been working as the Vice-Rector since 2016.

CIVIL ENGINEERING

Prof. Dr. Nuri KURUOĞLU

Publications

WDr. Kuruoğlu is the author of over 80 scientific articles scanned by WOS and SCOPUS indexes and over 90 scientific articles scanned by field indexes. He has more than 10 international studies presented at international scientific conferences and published in the proceedings book, and more than 40 national studies presented at national scientific conferences and published in the proceedings book. He has 3 scientific books published in national publishing houses. He also took part in the organization of various national and international conferences. Apart from the journals scanned by WOS and SCOPUS, he worked as an editor in many journals scanned by other indexes.

Dr. Kuruoğlu served as thesis advisor to 8 PhD and 13 graduate students working as Professors and Associate Professors at various universities. He and many professors, associate professors, assistant professors, and students he has trained have made great efforts to improve the science and teaching of mathematics in our country and he still continues to work for this cause.

The number of citations made to the works of Dr. Kuruoğlu are given below.

Index	Number of publications	Number of citations	h-index
Google Scholar	139	1727	26
Scopus	82	1415	24
Web of Science	80	1355	24

2022

M. AVEY, N. FANTUZZI, A.H. SOFIYEV, N. KURUOGLU (2022). Influences of elastic foundations on the nonlinear free vibration of composite shells containing carbon nanotubes within shear deformation theory, *Composite Structures* 286, 115288

A.H. SOFIYEV, N. KURUOGLU (2022). Buckling analysis of shear deformable composite conical shells reinforced by CNTs subjected to combined loading on the two-parameter elastic foundation, *Defence Technology* 18 (2), 205-218

M. AVEY, A.H. SOFIYEV, N. KURUOGLU (2022). Influences of elastic foundations and thermal environments on the thermoelastic buckling of nanocomposite truncated conical shells, *Acta Mechanica*, 1-16

2021

A. MAHMURE, A.H. SOFIYEV, N. FANTUZZI, N. KURUOGLU (2021). Primary resonance of double-curved nanocomposite shells using nonlinear theory and multi-scales method: Modeling and analytical solution, *International Journal of Non-Linear Mechanics* 137, 103816

A.H. SOFIYEV, M. AVEY, N. KURUOGLU (2021). An approach to the solution of nonlinear forced vibration problem of structural systems reinforced with advanced materials in the presence of viscous damping, *Mechanical Systems and Signal Processing* 161, 107991

CIVIL ENGINEERING

Prof. Dr. Nuri KURUOĞLU

Publications

2021

M. AVEY, N. FANTUZZI, A.H. SOFIYEV, N. KURUOGLU (2021). Nonlinear vibration of multilayer shell-type structural elements with double curvature consisting of CNT patterned layers within different theories, *Composite Structures* 275, 114401

A.H. SOFIYEV, F. TURAN, N. KURUOGLU (2021). Influences of material gradient and nonlinearity on the forced vibration of orthotropic shell structures, *Composite Structures* 271, 114157

A. MAHMURE, F. TORNABENE, R. DIMITRI, N. KURUOGLU (2021). Free vibration of thin-walled composite shell structures reinforced with uniform and linear carbon nanotubes: Effect of the elastic foundation and nonlinearity, *Nanomaterials* 11 (8), 2090

M. AVEY, A.H. SOFIYEV, N. FANTUZZI, N. KURUOGLU (2021). Primary resonance of double-curved nanocomposite systems using improved nonlinear theory and multi-scales method: Modeling and analytical solution, *Int. J. Nonlin. Mech* 137, 103816

A. DENIZ, N. FANTUZZI, A.H. SOFIYEV, N. KURUOGLU (2021). Modeling and solution of large amplitude vibration problem of construction elements made of nanocomposites using shear deformation theory, *Materials* 14 (14), 3843

Projects

The BAP Project, called the expansion of the Darboux roof area to 4 dimensions and the evaluation of its invariants, was completed in 2017.

CIVIL ENGINEERING



Prof. Dr. Mustafa KARAŞAHİN

Background

Prof. Dr. Mustafa KARAŞAHİN graduated from Akdeniz University, Department of Civil Engineering in 1985. He completed his master's degree at Istanbul Technical University, Department of Civil Engineering, Transportation Program in 1988. He completed his Ph.D. at Nottingham University (England) Department of Civil Engineering in 1993.

Contact

mkarasahin@gelisim.edu.tr

Academic and Administrative Experience

Research Fields

Highway Engineering

Railway Engineering

Transportation Geotechnics

Artificial Neural Networks

He worked as a research assistant at Akdeniz University, Department of Civil Engineering between 1986-1992. He worked as a research assistant at Süleyman Demirel University, Department of Civil Engineering between 1992-1993. He worked as an assistant professor doctor at Süleyman Demirel University, Department of Civil Engineering, Department of Transportation between 1993-1995. In 1995, he won the title of "associate professor" in the field of "Highway Transportation" in the associate professorship exam held by the Interuniversity Board. Between 1995 and 2001, he worked as an Associate Professor at Süleyman Demirel University, Department of Civil Engineering, Department of Transportation. He worked as a professor at Süleyman Demirel University, Department of Civil Engineering, Department of Transportation between 2001-2010. Between 2010-2017, he worked as a professor at Istanbul University, Civil Engineering, Department of Transportation. He has been working as a professor at Istanbul Gelişim University, Department of Civil Engineering since 2017. He supervised 18 doctoral students and more than 30 master students. He has been working as an "editorial board member" since 2013 in the "Transportation Geotechnics" magazine, which is scanned in the SCI index.

He worked between 1993-2010 at Süleyman Demirel University, and as Head of the Department of Transportation in the Department of Civil Engineering; Deputy Head of the Department between 1993-1995; Head of the Department of Architecture between 1996-1998; between 1995-1997, Deputy Dean of the Faculty of Engineering and Architecture; Member of Faculty Board between 1995-1998 and 2002-2010; Member of the Faculty Board of Directors between 1995-1998; the Head of the Civil Engineering Department between 2007-2010. He worked as the Head of the Department of Civil Engineering and Transportation between 2012-2017 and the Head of the Department between 2013-2016 at the Faculty of Engineering, Istanbul University. He worked as the Head of the Department of Civil Engineering at Istanbul Gelişim University between 2018-2021 and as a senator in the University Senate between 2020-2023.

CIVIL ENGINEERING

Prof. Dr. Mustafa KARAŞAHİN

Academic and Administrative Experience

Between 2005 and 2012, he worked as a consultant in the "railway field" at the Ministry of Transport. He took part in the test drives of the Ankara-Eskişehir high-speed train line, which was put into service for the first time in Turkey in 2009, and the Ankara-Konya high-speed train line, which was put into service in 2011. He provided consultancy services to TCCD between 2009 and 2013 on high-speed train management.

Between 2009 and 2021, he served as the Chairman and board member of the Transport, Communication, and Logistics Sector Committee of the Ministry of Labor and Social Security, Vocational Qualifications Authority, as the representative of YÖK. He has been working as an evaluation member of the Ministry of Transport and Infrastructure, Transport Safety Investigation Center (formerly known as Accident Investigation and Investigation Board) since 2013 (its establishment year).

He worked as the Head of the Railway Regulation Committee and the Head of the Highway R&D Committee in 2009 (10th Transportation Council) at the "Transportation Council" of the Ministry of Transport, where representatives of the Turkish and foreign transportation sectors come together at regular intervals and where transportation problems and solution strategies are discussed. He worked as the head of the Highway R&D Committee and the Moderator of the Railway Session at the 11th Transportation Council held in 2013. In the 2013 Highway-R&D Committee final declaration, "...If Turkey is going to produce domestic cars, it should enter the sector with electric cars in order to compete with the countries of the world..." was included in the final declaration. It is thought that the basis of the production of the TOGG electric vehicle, which started to be produced in Gemlik today, is the effect of the decision taken here.

Publications

2023

KIRBAŞ UFUK, KARAŞAHİN MUSTAFA (2023). Discomfort limits provided by railroad crossings to passenger cars. *International Journal of Pavement Engineering*, Doi: 10.1080/10298436.2021.2001817

KIRBAŞ UFUK, KARAŞAHİN MUSTAFA (2023). Karayolu - demiryolu hemzemin geçitlerinde maruz kalınan titreşimin insan sağlığını etkileme seviyeleri. *Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi*, 12(2), Doi: 10.28948/ngumuh.1214112

2022

YILDIRIM MEHMET SİNAN, KARAŞAHİN MUSTAFA, GÖKKUŞ ÜMİT (2022). Scheduling of the Shuttle Freight Train Services for Dry Ports Using Multimethod Simulation-Optimization Approach. *International Journal of Civil Engineering*, 19(1), 67-83., Doi: 10.1007/s40999-020-00553-0

KIRBAŞ UFUK, KARAŞAHİN MUSTAFA (2022). Üstyapı Durum İndeksi ve Sürüş Konforu Arasındaki İlişkilerin Modellenmesi. *Mühendislik Bilimleri ve Tasarım Dergisi*, 10(3), 878-890., Doi: 10.21923/jesd.1035486

TACİROĞLU MURAT VERGİ, KARAŞAHİN MUSTAFA, TIĞDEMİR MESUT, IŞIKER Hakan (2022). Demiryolu Hat Geometrisinin Fraktal Analizi. *Demiryolu Mühendisliği*(16), 170-184., Doi: 10.47072/demiryolu.1130088

KIRBAŞ UFUK, KARAŞAHİN MUSTAFA (2022). Karayolu esnek yol üstyapılarında görülen yüzey bozulma türlerinin sürüş konforuna etkilerinin değerlendirilmesi. *Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi*, 11(2), 314-325., Doi: 10.28948/ngmuh.998065

CIVIL ENGINEERING

Prof. Dr. Mustafa KARAŞAHİN

Publications

2021

KARAŞAHİN, M., KIZILTAŞ, M.Ç. (2021) "Otonom Araçların Teknolojik Gelişim Süreci ve Trafik Seyir Özelliklerinin İncelenmesi", Düzce Üniversitesi Bilim ve Teknoloji Dergisi, 9(4), 374-381., Doi: 10.29130/dubited.908525

YILDIRIM, M.S., GÖKKUŞ, Ü., KARAŞAHİN, M. (2021) "Ayrılmış Demiryolu Hatlarında Mekik Trenler İçin Mikro-Simülasyon Tabanlı Taşımacılık Kapasitesi Analizi", Demiryolu Mühendisliği, Sayı: 202, 202-216., 10.47072/demiryolu.935335

2020

TACİROĞLU MURAT VERGİ, KARAŞAHİN MUSTAFA, TIĞDEMİR MESUT, IŞIKER Hakan (2020). "Fractal analysis of high speed rail geometry data: A case study of Ankara-Eskişehir high speed rail" , Measurement , vol.165 ,263-224.

BAYRAK MEHMET ÇAĞRI, TIĞDEMİR MESUT, KARAŞAHİN MUSTAFA, ÇAKMAK OLCAY (2020) "Yere Nüfuz Eden Radar Yöntemi ile Balast Kirliliğinin Belirlenmesi", Mühendislik Bilimleri ve Tasarım Dergisi, 8(2), 572-581, Doi: 10.21923/jesd.695507

Projects

-Consultancy service to Anadolu University between 2012-2021 in the Railway Center of Excellence (URAYSİM) project, which is in the establishment phase in Eskişehir Alpu District.

-Researcher: İşbirlikçi Taşıt Dinamiklerinin Trafik Akım Modellemesine Etkileri: Benzetim ve Kontrol, TÜBİTAK destekli, Proje no: 120M576, 2021-2023

-Consultancy service to EMAY Project and Consultancy firm within the scope of Osmaneli- Bursa high-speed train project 2022-2023

-Consultancy service on the suitability of the "ballast binder" material produced by a private company in Bursa 2022

Refereeing Positions in Journals

- International Journal of Pavement Engineering
- Mühendislik Bilimleri ve Tasarım Dergisi
- Uludağ Üniversitesi Mühendislik Fakültesi Dergisi
- International Journal of Engineering Technologies

CIVIL ENGINEERING



Prof. Dr. Abdullah Necmettin GÜNDÜZ

Background

Prof. Dr. Abdullah Necmettin Gündüz gained his undergraduate degree in 1973, graduate degree in 1975 and PhD in 1988, all in Istanbul Technical University, Faculty of Civil Engineering. During undergraduate study funded by TUBITAK and during PhD study by Vehbi Koç Foundation.

Contact

angunduz@gelisim.edu.tr

Academic and Administrative Experience

Research Fields

Reinforced Concrete Structures

Structural Dynamics

Structural Analysis

Earthquake Resistant Design of Structures

Earthquake Engineering

Reinforced Tall Buildings

Theory of Plates and Shells

A.Necmettin Gündüz was assigned as a teaching assistant to the Reinforced Concrete Structures and Advanced Strength of Materials Chair of Istanbul Technical University Faculty of Civil Engineering in 1977, completed his PhD study titled 'Elasto-hydrodynamic vibrations of thin elastic plates loaded by fluids' in 1988.

A. Necmettin Gündüz was accepted to Structural Engineering, Mechanics and Materials, Department of Civil Engineering of University of California, Berkeley as a Postdoctoral Research Fellow. He studied there between September 1988 and September 1989, and was assigned as Assistant Professor to Division of Structures of ITU Faculty of Civil Engineering in September 1989, became Associate Professor at the same division in 1994 and retired in May 2019.

A. Necmettin Gündüz has been giving lectures for Graduate Study Institute of İstanbul Kültür University since October 2019.

He has been assigned as Professor to Department of Civil Engineering of İstanbul Gelişim University in April 2022.

His research areas are Reinforced Concrete Structures, Structural Analysis, Earthquake Resistant Design of Structures, Earthquake Engineering, Tall Buildings, Theory of Plates and Shells,

In Istanbul Technical University and Istanbul Kültür University gave undergraduate courses, Numerical Analysis, Computer Programming, Mathematics III, Mathematics IV, Reinforced Concrete I, Reinforced Concrete II, Dynamics of Structures, Tall Buildings, Earthquake Resistant Design, Strength of Materials and graduate courses, Engineering Mathematics, Theory and Practice in Earthquake Engineering, Theory of Plates and Shells, Advanced Structural Dynamics, Boundary Element Method in Engineering.

CIVIL ENGINEERING

Prof. Dr. Abdullah Necmettin GÜNDÜZ

Academic and Administrative Experience

A. Necmettin Gündüz has been giving undergraduate courses Reinforced Concrete I, Reinforced Concrete II, Reinforced Concrete Design, Introduction to Earthquake Engineering and graduate courses Advanced Structural Dynamics and Matrix Structural Analysis in Istanbul Gelisim University.

He was supervised 2 PhD students and more than 50 graduate students.

He was the principal researcher of a research project 'Rehabilitation of Old Railway Bridges of Turkey' granted by NATO Advanced Study Institute, Science for Stability Program during 1990-1993 time period. Within this scope of this project, structural field tests were made for Istanbul Çerkezköy, Tekirdağ Muratlı, Manisa Alaşehir and Cambazkaya Steel Railway Bridges. Digital data logged during tests and then those data evaluated and reported in published Technical Reports.

After 1992 Erzincan, 1995 Dinar, 1998 Adana, 1999 Gölcük and Düzce Earthquakes, joined to the working groups in ITU formed for research, repairing and strengthening of structures in earthquake area.

Research subjects studied together with his graduate and PhD students, conference and journal papers are Non-linear thin elastic plate theory, Fluid-Structure and Soil-Structure dynamic interaction problems, Earthquake Resistant Design of Reinforced Concrete Buildings, Earthquake Performance Analysis of Multistory Reinforced Concrete Buildings and Bridges.

Conference papers were presented and published more than 10 conferences and journal papers are published in Bulletin of Istanbul Technical University, Turkish Journal of Engineering and Environmental Science, Teknik Dergi, Journal of Earthquake Engineering' and 'Structures

CIVIL ENGINEERING



Assoc. Prof. Dr. Suleiman KHATRUSH

Background

Assoc. Prof. Dr. Suleiman Khatrush was graduated from the civil engineering department, Faculty of Engineering, University of Garyounis (Benghazi -Libya) in the year 1978. Upon graduation he worked as a research assistant for one year in the same department, then he went to the United Kingdom (UK) for post graduate studies. Dr. Khatrush has got his Master's degree from the department of civil and structural engineering, University of Sheffield in 1982, with a thesis titled `The insertion of caisson anchor in sand` and his PhD in the field of geotechnical engineering from the department of civil Engineering, University of Surrey in 1987.

Contact

sasmohamed@gelisim.edu.tr

Academic and Administrative Experience

Research Fields

Soil Mechanics

The research work was titled `Yielding of sand in triaxial stress space`, It was an experimental program involving a development of an automatic stress path testing system and new displacement measuring devices based on the Hall effect principle for the first time. The devices which to be installed internally on the soil specimen measure both axial and lateral strains proved to be simple, light and reasonably accurate. Well-known companies' in UK specialist in soil mechanics testing equipment such as ELE and GDS have introduced the devices for marketing. Dr. Khatrush has returned to Libya to join the University of Benghazi (UB), civil engineering department in 1988 as a lecturer in geotechnical engineering, assistant professor in 1993 and associate professor in 2009. he became a head of civil engineering department from 1991 to 1996 and a dean of the faculty of engineering from 2012 to 2014..

During his stay at UB, he thought several undergraduate courses such as Engineering mechanics, Strength of materials soil mechanics, foundation engineering and graduate courses such as Advanced soil mechanics, geotechnical engineering, foundation analysis and design, rock mechanics. Dr. Khatrush has supervised more than 50 final year graduation projects in many topics related to civil engineering practice including geotechnical analysis and design, laboratory measurements and field applications. He also was a supervisor for several MSc thesis work in topics such as pile foundations, soil structure interaction, problematic soils and seismic geotechnical analysis. In 2018 he joined Istanbul Gelisim University (IGU) as associate professor in the civil engineering department, (English program) teaching courses of dynamics, engineering geology, soil mechanics, foundation engineering, retaining structures, surveying and construction management.

CIVIL ENGINEERING

Assoc. Prof. Dr. Suleiman KHATRUSH

Academic and Administrative Experience

Dr. Khatrush worked as a consultant engineer for several years between 1993 and 2006 through his own consultancy office AL-Bunyan and as a part time consultant and head of the geotechnical division at the Libyan technical company (LTC-Libya) for the years 2006 to 2011. He also engaged in consultations for many other governmental and private authorities in Libya, the work contains site investigations, review designs, provide advices, define problems and assess damages for several projects related to foundations on soils and rocks. In 2010 Dr. Khatrush had a sabbatical leave at Cardiff University (UK) where he gets involved in the research work in the field of unsaturated soils. Dr. Khatrush is a member of the Libyan chamber of engineers, and a founding member of the Libyan geotechnical society.

Publications

Dr. Khatrush published research work includes 3 articles in Q1 journal, 505 citations and H-index of 5 and others in local and international journals and local and international conferences.

2022

G.Yucel, S. Khatrush (2022). Seismic damage prediction of buildings using fuzzy logic the case of Ambarlı neighborhood at Avcılar. 4th International Disaster and Resilience Congress.

2021

Suleiman Khatrush, EL-GEHANI Ghassan (2021). Laboratory evaluation of undrained shear strength of a soft fine grained soils. International Journal of Engineering Technologies IJET 7 (3), 66-74.

CIVIL ENGINEERING



Contact

anis@gelisim.edu.tr

Assoc. Prof. Dr. Anil Niş

Background

Assoc. Prof. Dr. Anil Niş received his Bachelor's degree from Pamukkale University in 2008 and his master's and doctorate degrees from Boğaziçi University in 2011 and 2017. During his master's education, he worked as a researcher in the Tübitak 1001 project titled "Evaluation of Limit Values for Steel Reinforcement Corrosion Given in TS EN 206 Standard Considering Crack Formation and Propagation in Plain and Steel Fiber Reinforced Concrete".

Academic and Administrative Experience

During his Ph.D. education, he worked as a project engineer in a private company between 2012-2014 and worked as a research assistant in the Civil Engineering Department at Boğaziçi University between 2015-2017. In September 2017, he started as an Assist. Prof. Dr. at Istanbul Gelisim University Civil Engineering Department, he received his Assoc. Prof. Dr. title in November 2021, and he has been working as Assoc. Prof. Dr. at IGU since then.

Research Fields

Steel Reinforcement Corrosion

Self-Compacting Concretes

Fibrous Concretes

Geopolymer Concretes

The Durability of Ordinary Portland Cement Concretes and Cementless Concretes

Fiber-Reinforced Polymer (FRP) Reinforcement Methods

Publications

2023

Asfaw Mekonnen Lakew, Orhan Canpolat, Mukhallad M Al-Mashhadani, Mucteba Uysal, Anil Niş, Yurdakul Aygörmez, Mohammad Bayati. (2023). Combined effect of using steel fibers and demolition waste aggregates on the performance of fly ash/slag based geopolymer concrete. *European Journal of Environmental and Civil Engineering*, 1-28.

2022

Anil Niş, Necip Altay Eren, Abdulkadir Çevik. (2022). Effects of recycled tyre rubber and steel fibre on the impact resistance of slag-based self-compacting alkali-activated concrete. *European Journal of Environmental and Civil Engineering*, 1-19.

Anil Niş, Taha Salah Wahhab Al-Antaki. (2022). PUMICE AGGREGATE BASED LIGHTWEIGHT CONCRETES UNDER SULFURIC ACID ENVIRONMENT. *Revista Romana de Materiale*, 194-202.

Maysam Aljanabi, Abdulkadir Çevik, Anil Niş, Derya Bakbak, Sarah Kadhim. (2022). Residual mechanical performance of lightweight fiber-reinforced geopolymer mortar composites incorporating expanded clay after elevated temperatures. *Journal of Composite Materials*, 1737-1752.

CIVIL ENGINEERING

Assoc. Prof. Dr. Anil Niş

Publications

2022

Ömer Faruk Kuranlı, Mucteba Uysal, Mele Tidjani Abbas, Turgay Cosgun, Anıl Niş, Yurdakul Aygörmez, Orhan Canpolat, Mukhallad M Al-mashhadani. (2022). Evaluation of slag/fly ash based geopolymer concrete with steel, polypropylene and polyamide fibers. *Construction and Building Materials*, 126747.

Ömer Faruk Kuranlı, Mucteba Uysal, Mele Tidjani Abbas, Turgay Çoşgun, Anıl Niş, Yurdakul Aygörmez, Orhan Canpolat, Mukhallad M Al-mashhadani. (2022). Mechanical and durability properties of steel, polypropylene and polyamide fiber reinforced slag-based alkali-activated concrete. *European Journal of Environmental and Civil Engineering*, 1-26.

Sarah Kadhim, Abdulkadir Çevik, Anıl Niş, Derya Bakbak, Maysam Aljanabi. (2022). Mechanical behavior of fiber reinforced slag-based geopolymer mortars incorporating artificial lightweight aggregate exposed to elevated temperatures. *Construction and Building Materials*, 125766.

Ugur Cem Hasar, Necip Altay Eren, Hamdullah Ozturk, Mucahit Izginli, Huseyin Korkmaz, Abdulkadir Cevik, Anil Nis, Mohammad R Irshidat. (2022). Mechanical and Electromagnetic Properties of Self-Compacted Geopolymer Concretes With Nano Silica and Steel Fiber Additives. *IEEE Transactions on Instrumentation and Measurement*, 1-8.

2021

Anıl Niş, İlhan Altındal. (2021). Compressive strength performance of alkali activated concretes under different curing conditions. *Periodica Polytechnica Civil Engineering*, 556-565.

Anıl Niş, Necip Altay Eren, Abdulkadir Çevik. (2021). Effects of nanosilica and steel fibers on the impact resistance of slag based self-compacting alkali-activated concrete. *Ceramics International*, 23905-23918.

Necip Altay Eren, Radhwan Alzeebaree, Abdulkadir Çevik, Anıl Niş, Alaa Mohammedameen, Mehmet Eren Gülşan. (2021). Fresh and hardened state performance of self-compacting slag based alkali activated concrete using nanosilica and steel fiber. *Journal of Composite Materials*, 4125-4139.

Necip Altay Eren, Radhwan Alzeebaree, Abdulkadir Çevik, Anıl Niş, Alaa Mohammedameen, Mehmet Eren Gülşan. (2021). The Effects of Recycled Tire Rubbers and Steel Fibers on the Performance of Self-compacting Alkali Activated Concrete. *Periodica Polytechnica Civil Engineering*, 890-900.

Radhwan Alzeebaree, Arass Omer Mawlod, Alaa Mohammedameen, Anıl Niş. (2021). Using of recycled clay brick/fine soil to produce sodium hydroxide alkali activated mortars. *Advances in Structural Engineering*, 2996-3009.

2020

A Niş, N Özyurt, T Özturan. (2020). Variation of flexural performance parameters depending on specimen size and fiber properties. *Journal of Materials in Civil Engineering*, 04020054.

Nilüfer ÖZYURT, Tayfun Altuğ SÖYLEV, Turan ÖZTURAN, Ahmet Onur Pehlivan, Niş Anıl. (2020). Corrosion and chloride diffusivity of reinforced concrete cracked under sustained flexure. *Teknik Dergi*, 10315 - 10337.

CIVIL ENGINEERING

Assoc. Prof. Dr. Anil Niş

Publications

2020

Radhwan Alzebaree, Abdulkadir Çevik, Alaa Mohammedameen, Anil Niş, Mehmet Eren Gülşan. (2020). Mechanical performance of FRP-confined geopolymer concrete under seawater attack. *Advances in Structural Engineering*, 1055-1073.

Projects

- "Yüksek Hassasiyetli Tahribatsız Mikrodalga Metamalzeme Sensörlerini Kullanarak Jeopolimer Ve Çimento-Esaslı Yapılarda Alkali-Silika-Reaksiyonunun Tespiti Ve Jeopolimer Yapılardaki Su Reaksiyon Mekanizmalarının İncelenmesi" 1001- Projesi; 2021-Devam etmektedir

- FBA-2019-3558, YTÜ-BAP projesi

- HD-190220-AN, BAP, devam etmekte

Book Chapters

Niş, A., Çevik, A. Seawater resistance of alkali-activated concrete, 2021, 451-469

Refereeing Positions Journals

- Ceramics International
- Construction and Building Materials
- Journal of Building Engineering
- Computers and Concrete
- Advances in Concrete Construction
- Case Studies in Construction Materials
- Cleaner Engineering and Technology
- European Journal of Environmental and Civil Engineering
- Iranian Journal of Science and Technology,
- Transactions of Civil Engineering
- Arabian Journal for Science and Engineering
- Journal of Materials in Civil Engineering

Rewards and Successes

In 2023, Assoc. Prof. Dr. Anil Niş worked as a book editor in Elsevier, one of the best publishers in the world, titled "Advanced Fiber-Reinforced Alkali-Activated Composites", in which many well-known academicians from different countries wrote the chapters of this book. In addition, Assoc. Prof. Dr. Anil Niş is one of the authors of the book chapter titled 'Introduction to Fiber-Reinforced Alkali-Activated Composites' in the same book

CIVIL ENGINEERING



Contact

ypasa@gelisim.edu.tr

Assist. Prof. Dr. Yasin PAŞA

Background

Dr. Yasin PAŞA (Abdollahzadeh moradi) was born in Shendabad, a province of eastern Azerbaijan, in IRAN in 1982. After completing primary, secondary and high school in Şebister district, he started university in 2001. After graduating from Civil Engineering Department in 2005 as Dam and related facilities engineer from Birjand University (Iran-South Khorasan), he started to work at KARUN 4 (IRAN) dam. In 2008, he started his master's degree in Istanbul Technical University, Department of Hydraulics and Water Resources Engineering and in 2012 he successfully defended his thesis titled "Flood frequency analysis in Karun river" and graduated as a "master engineer". He started his PhD at the same university in 2012, and in 2018, he successfully defended his thesis titled "Extraction of wave energy potential at macro and micro scale" and received the title of "Doctor".

Academic and Administrative Experience

Dr. Yasin PAŞA worked as a research fellow for 3 years (2012-2015) in the Tübitak 1001 project titled "Design and Optimization of Wave Energy Conversion System on the Shore". He also took part in various national and international projects based on projects with companies within the body of ITU Technopolis.

Since February 2019, he work as "Assist. Prof. Dr." in Civil Engineering Department of Istanbul Gelisim University and still continues in this position.

Assist. Prof. Dr. Yasin PAŞA teaches Hydraulics, Hydrology, Water Supply and Wastewater Removal, Dams and Fluid Mechanics at undergraduate level, Urban Infrastructure Hydraulics and Dam Planning and Design courses to graduate students, and Basin Hydrology and Stochastic Methods courses to doctoral students.

Assist. Prof. Dr. Yasin PAŞA graduated 5 graduate students with thesis and advises 9 graduate students and 3 doctoral students. The topics of the theses he supervised and are currently continuing are: Flood risk analysis, Floods that will occur as a result of dam breakage, Urban infrastructure engineering (analysis of water distribution networks and stormwater drainage systems), Design and optimization of port structures.

With expertise in Hydraulics and Water resources, Coastal and Harbor Engineering, Assist. Prof. Dr. Yasin PAŞA has been involved in various national and international projects (more than 50) and is still involved in ongoing projects.

Assist. Prof. Dr. Yasin PAŞA has 4 articles within the scope of SCI and 2 articles in national journals (TR Index). In addition to these, he has participated in many national and international conferences by presenting papers.

Research Fields

Hydraulics

Coastal Engineering

CIVIL ENGINEERING

Assist. Prof. Dr. Yasin PAŞA

Academic and Administrative Experience

He is the assistant editor of Istanbul Gelisim University Faculty of Engineering and Architecture scientific journal (International Journal of Engineering Technologies (IJET)). Assist. Prof. Dr. Yasin PAŞA is also a referee in national and international journals.

Today, computer software (engineering software) has a large share in the development of civil engineering. Based on this, Assist. Prof. Dr. Yasin PAŞA has the ability to use many software common in water engineering. The book titled "Computer Applications in Water Resources Engineering (HEC RAS)" is about to be published by the Istanbul Gelişim University printing press so that the civil engineers who want to work on water issues can easily learn the engineering software .

Assist. Prof. Dr. Yasin PAŞA was granted citizenship of the Republic of Turkey in 2020 and is fluent in Azerbaijani Turkish, Persian and English languages.

Interested in history and science, Assist. Prof. Dr.Yasin PASHA reads scientific and historical books and watches movies. He also conducts research on the history of education and science.

Publications

2023

Paşa, Y., Peker, İB., Hacı, A., Gülbaz, S. (2023). Dam failure analysis and flood disaster simulation under various scenarios. *Water science and technology : a journal of the International Association on Water Pollution Research*, 87 (5), pp. 1214-1231.

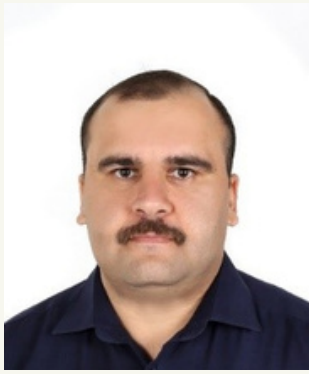
2020

Y. Abdollahzadehmoradi (2020). Application of a numerical model for wave parameter hindcasting in the Marmara Sea Basin. *Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi*, 22 (2), pp. 567-580.

Mahnamfar, F., Altunkaynak, A., Abdollahzadehmoradi, Y. (2020). Comparison of Experimental and Numerical Model Results of Oscillating Water Column System Under Regular Wave Conditions. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*, 44 (1), pp. 299-315.

F. Mahnamfar, Y. Abdollahzadehmoradi, N. Ağıralioğlu (2020). Flood risk analysis of residential areas at downstream side of Elmali dam. *Academic Platform Journal of Natural Hazards and Disaster Management*, 1(1), pp. 58 - 67.

CIVIL ENGINEERING



Assist. Prof. Dr. Metin MEHMETOĞLU

Background

Dr. Metin MEHMETOĞLU received his undergraduate degree from AL-MUSTANSIRIYAH University in 2009, his graduate degree from JNTUH/Hyderabad-India University in 2011 and his doctorate degree from Yıldız Technical University in 2018. Dr. MEHMETOĞLU has been working at Istanbul Gelisim University Civil Engineering Department since February 2019.

Contact

mashhadani@gelisim.edu.tr

Academic and Administrative Experience

Research Fields

Construction Materials

Sustainability

Teaching Statics, Materials Science, Building Materials, Sustainable Building Materials, Graduation Project courses at the undergraduate level in both English and Turkish languages, Metin MEHMETOĞLU, gives lectures on Concrete Technology, Concrete Durability, Sustainable Concrete Materials at master's and doctorate levels.

Dr. Metin MEHMETOĞLU is a referee in many international journals with the highest impact value (Q1 impact factor). Having graduated 5 graduate students with thesis since 2019, Dr. Instructor Member Metin MEHMETOĞLU has 9 Q1 articles, 3 Q2 articles and 2 Q3 articles within the scope of SCI, according to the Scopus database. Apart from SCI and ESCI publications, he has more than 10 national and international conferences, 5 national and international articles. As of the beginning of 2023, with more than 700 citations, Dr. Instructor Member Metin MEHMETOĞLU's h-index is 11.

Dr. Metin MEHMETOĞLU has worked as a researcher in Yıldız Technical University's BAP research project with the code FBA-2019-3558, and he is also a coordinator in the HD-190220-AN BAP research project, which is still ongoing at Istanbul Gelişim University.

Dr. Metin MEHMETOĞLU, especially within the framework of sustainability, researches the use of cementless concrete in the construction of buildings in our country and in the world, since traditional Portland cement production is responsible for approximately 10% of carbon dioxide emissions in the world and causes high energy requirements and climate changes during cement production. In addition, Dr., who has researches on many subjects such as the use of aggregates from collapsed buildings in structures, the durability of concrete exposed to sea water and other harmful chemicals. Instructor Member Metin MEHMETOĞLU also has studies on the use of new generation nano-materials in mortar and concrete production.

CIVIL ENGINEERING

Assist. Prof. Dr. Metin MEHMETOĞLU

Publications

2023

Lakew, A.M., Canpolat, O., Al-Mashhadani, M.M., Uysal, M., Niş, A., Aygörmez, Y., Bayati, M. (2023). Combined effect of using steel fibers and demolition waste aggregates on the performance of fly ash/slag based geopolymer concrete. *European Journal of Environmental and Civil Engineering*.

Kuranlı, Ö.F., Uysal, M., Abbas, M.T., Çoşgun, T., Niş, A., Aygörmez, Y., Canpolat, O., Al-mashhadani, M.M. (2023). Mechanical and durability properties of steel, polypropylene and polyamide fiber reinforced slag-based alkali-activated concrete. *European Journal of Environmental and Civil Engineering*, 27 (1), pp. 114-139.

2022

Mohamed, A.Y., Canpolat, O., Al-Mashhadani, M.M. (2022). Mechanical and durability of geopolymer concrete containing fibers and recycled aggregate. *Computers and Concrete*, 30 (6), pp. 421-432.

Alcharchafche, M.A.S., Al-mashhadani, M.M., Aygörmez, Y. (2022). Investigation of mechanical and durability properties of brick powder-added White Cement composites with three different fibers. *Construction and Building Materials*, 347, art. no. 128548.

Kuranlı, Ö.F., Uysal, M., Abbas, M.T., Cosgun, T., Niş, A., Aygörmez, Y., Canpolat, O., Al-mashhadani, M.M. (2022). Evaluation of slag/fly ash based geopolymer concrete with steel, polypropylene and polyamide fibers. *Construction and Building Materials*, 325, art. no. 126747.

2021

Mohamed, A., Canpolat, O., Al-Mashhadani, M.M. (2021). Assessment of strength and abrasion resistance of elasto-plastic fiber reinforced concrete using geopolymer based recycled aggregates. *Environmental Research and Technology*, 4 (3), pp. 244-248.

2020

Aygörmez, Y., Canpolat, O., Al-mashhadani, M.M. (2020). A survey on one year strength performance of reinforced geopolymer composites. *Construction and Building Materials*, 264, art. no. 120267.

Al-mashhadani, M.M., Canpolat, O. (2020). Effect of various NaOH molarities and various filling materials on the behavior of fly ash based geopolymer composites. *Construction and Building Materials*, 262, art. no. 120560.

Aygörmez, Y., Canpolat, O., Al-mashhadani, M.M. (2020). Assessment of geopolymer composites durability at one year age. *Journal of Building Engineering*, 32, art. no. 101453.

Ali, N., Canpolat, O., Aygörmez, Y., Al-Mashhadani, M.M. (2020). Evaluation of the 12-24 mm basalt fibers and boron waste on reinforced metakaolin-based geopolymer. *Construction and Building Materials*, 251, art. no. 118976.

Aygörmez, Y., Canpolat, O., Al-mashhadani, M.M., Uysal, M. (2020). Elevated temperature, freezing-thawing and wetting-drying effects on polypropylene fiber reinforced metakaolin based geopolymer composites. *Construction and Building Materials*, 235, art. no. 117502.

Aygörmez, Y., Al-mashhadani, M.M., Canpolat, O. (2020). High-temperature effects on white cement-based slurry infiltrated fiber concrete with metakaolin and fly ash additive. *Revista de la Construcción*, 19 (2).

CIVIL ENGINEERING



Assist. Prof. Dr. Mustafa NURİ

Background

Dr. Mustafa Nuri was born in Tabriz in 1983. After completing his undergraduate education in the Department of Water Engineering at Iran's Razi University, he came to Turkey in 2011 and graduated from Istanbul Technical University with a master's degree in 2014 and a doctorate degree in 2019. From August 2019 to March 2023, he worked as a foreign lecturer at Gelişim University, and towards the end of 2022, he received the privilege of being a citizen of the Republic of Turkey, and was appointed to the staff of the university as an assistant professor.

Contact

mnuri@gelisim.edu.tr

Academic and Administrative Experience

Research Fields

Hydraulics And Water Resources

Hydro climatology

Atmospheric Sciences

Dr. Mustafa NURİ graduated from Istanbul Technical University, Department of Civil Engineering and Hydraulic and Water Resources program. In his master's thesis, he compared the flow hydrograph methods that are frequently used in engineering projects. In his doctoral thesis, he examined the effects of climate change on water resources from different aspects, and analyzed drought and extreme precipitation events in Turkey's Western Black Sea and Tigris-Euphrates basins by making use of future climate projections. He also examined the effects of climate change on river flows with computer simulations.

Publications

2020

Balov, M. N. (2020). Influence of Climate Change on the Flood Disasters in Bursa, Turkey. International Journal of Engineering Technologies IJET, 62-68.

-Mustafa Nuri Balov, Abdüsselam Altunkaynak. (2020). Spatio-temporal evaluation of various global circulation models in terms of projection of different meteorological drought indices. Environmental Earth Sciences, 126.

-Mustafa Nuri Balov, Abdüsselam Altunkaynak. (2020). The impacts of climate change on the runoff volume of Melen and Munzur Rivers in Turkey based on calibration of WASMOD model with multiobjective genetic algorithm. Meteorology and Atmospheric Physics, 85-98.

Projects

Residential Area Drainage Systems and Flood Analysis in Istanbul (İSKİ Master Plan), 2020, 2022, Researcher.

Investigation of Hydro-Meteorological Droughts in the Aegean Region Under the Effect of Climate Change, Yaşar University - BAP - Researcher

CIVIL ENGINEERING



Contact

snorozpour@gelisim.edu.tr

Research Fields

Calculus

Numerical Analysis

Artificial Intelligence

Statistics

Assist. Prof. Dr. Sajedah NOROZPOUR

Background

Assist. Prof. Dr. Sajedah N.Sigaroodi (Setare) was born in Iran, in 1990. She received the B.E. degree in Mathematics and Electrical Engineering from Geyilan University of Iran and Azad University of Lahijan, respectively, in 2011 then she continued her master in Mathematics with specialization in partial differential equation in Geyilan university of Iran and graduated in 2013. She got her PhD degree from department of mathematics and computer sciences in Eastern Mediterranean University, Gazimagusa, North Cyprus in 2018. While working on the thesis, she joined the department of Mathematics and computer science in Near East University as a part-time instructor. Despite the challenges of balancing her studies and work, she found the time to volunteer at a youth center where she helped students with their Math homework. Later on, she presented her thesis in title of "On an Alternative View to Complex Calculus", and was awarded the title of Doctor of Mathematics and continued his job in Near east university as an assistant professor. She showed great promise as a mathematician. However, her passion lay with sharing Math with others and making it fun to learn.

Academic and Administrative Experience

Since August 2019, Dr Sajedah N.Sigaroodi has been with the Department of Civil Engineering, Istanbul Gelisim University, where she is an Assistant Professor. She has the experiment of teaching in different universities, and she teaches undergraduate courses Calculus, Differential Equations, Numerical Analysis, linear algebra, Statistics and Probability for international students at Istanbul Gelisim University.

Publications

2022

Norozpour, S. (2022). On the Performance of Teaching Digitalization by Use of Linear Regression Mathematical Method. TEM Journal, 1223-1228.

2021

MEHDI SAFAEI, SAJEDEH NOROZPOUR. (2021). Foreigner identification number in Turkey: challenges, threats, opportunities and its role in organizational sustainability development. PSYCHOLOGY AND EDUCATION, 3109-3120.

Mohammad Momenzadeh, Sajedah Norozpou. (2021). Alternative fractional derivative operator on non-newtonian calculus and its approaches. Nexo Revista Científica, 906-915.

NOROZPOUR, S. (2021). On e-Learning Difficulties Worldwide Faced Throughout the COVID-19. Natural Volatiles and Essential Oils, 9751-9760.

Norozpour, S. (2021). Simulation of the Relation Between the Number of COVID-19 Death Cases as a Result of the Number of Handwashing Facilities by Using Artificial Intelligence. Artificial Intelligence for COVID-19.

Sajedah Norozpour Norozpour, Mohammad Momenzadeh, Ali Abolhasani. (2021). Proposing new system for handling business data systems with more functionality and usability. Nexo Revista Científica, 835-847.

CIVIL ENGINEERING

Assist. Prof. Dr. Sajedah NOROZPOUR

Publications

2021

Sajedah Norozpour, Mohammad Momenzadeh. (2021). On Comparison of Different Image Segmentation Techniques. Turkish Journal of Computer and Mathematics Education (TURCOMAT), 4659-4663.

2020

M.Momenzadeh S.Norozpour. (2020). Study of New Class of q -fractional Derivative Operator and its Properties. International Journal of Advanced Science and Technology, 2871-2878.

Sajedah Norozpour, Mehdi Darbandi. (2020). Proposing New Method for Clustering and Optimizing Energy Consumption in WSN. Talent Development & Excellence.

CIVIL ENGINEERING



Assist. Prof. Dr. Mesut BARIŞ

Background

Assist. Prof. Dr. Mesut BARIŞ (Formerly Masoud DERAKHSHANDEH) received his BA from Shiraz (IRAN) University in 2006, his MA from Amir Kabir (IRAN) University in 2012, and his PhD from Anadolu University between 2014-2018. During his graduate education, he successfully completed his thesis on "Experimental Investigation of Convective Heat Transfer Coefficient of Alumina Nanofluid in Laminar Flow Regime" and has 4 sci papers on the subject. In 2013, the YTB scholarship given to international students by the Türkiye Scholarships was awarded and he started his PhD in Environmental Engineering at Anadolu University and started his academic life in Turkey as a student. Since May 2019, he has been working at Istanbul Gelişim University Civil Engineering Department. Dr. Mesut BARIŞ, as a faculty member, has established Bioenergy and Biomass Research laboratories where available research infrudtstructure is improving day by day.

Contact

mderakhshandeh@gelisim.edu.tr

Academic and Administrative Experience

Research Fields:

Renewable Energy Sources

In the Department of Civil Engineering, Chemistry and Materials chemistry courses are given in Turkish and English by Dr. BARIŞ. He instructs Geographic Information Systems (GIS) and Remote Sensing fundamental concepts and as a more advanced course "Special topics in Civil Engineering" for our M.Sc. graduate students.

Dr. Mesut BARIŞ, as his main research area, is carrying out research activities on biofuel production from microalgae biomass within the scope of renewable energy sources. With his undergraduate degree in chemical engineering, he has strong technical background in large scale process design where he aims to carry the process of these technologies to real scales in a laboratory environment. Renewable energy sources are vital for Türkiye's sustainable development, because fossil fuels resources are limited in Türkiye where being imported significantly to supply energy demands. From another perspective, traditional fossil fuels are the main influencing factors on the global warming effect. Research activities on renewable energy sources are essential to mitigate these effects.

Dr. Bariş studies biomass sources with potential of growing fast for biofuel production. The most suitable method for this purpose is to use microalgae strains which are autotroph photosynthetic microorganisms. Photobioreactors are designed to meet the growth conditions of these microorganisms. Below, FBR units functioning in the Bioenergy laboratory at the IGUSTIM Center is shown. Studies in this field cover the fields of chemical engineering, biology and biotechnology.

In his new research project, he plans to develop microalgae culture technologies on solid surface which is different from traditional in-liquid culture FBR designs. He has submitted a project to TÜBİTAK to provide financial resources.

CIVIL ENGINEERING

Assist. Prof. Dr. Mesut BARIŞ

Academic and Administrative Experience

As of 2019, he started a second doctorate program in the field of GIS at Eskişehir Technical University and will graduate soon. He is working as partner of a SRP project on the modeling of evapotranspiration (ET) from agricultural fields using GIS and UA techniques where it is the subject of his second PhD thesis. In this project, the principle implemented to estimate ET relies on an energy balancing technique by applying the METRIC model using high resolution satellite images. Artificial Intelligence algorithms are also implemented to increase the resolution of the evaporation maps obtained.

Publications

2022

Fettah, N., Derakhshandeh, M., Tezcan Un, U., Mahmoudi, L. (2022). Effect of light on growth of green microalgae *Scenedesmus quadricauda*: influence of light intensity, light wavelength and photoperiods. *International Journal of Energy and Environmental Engineering*, 13 (2), pp. 703-712.

Cetin, M., Isik Pekkan, Ö., Ozenen Kavlak, M., Atmaca, I., Nasery, S., Derakhshandeh, M., Cabuk, S.N. (2022). GIS-based forest fire risk determination for Milas district, Turkey. *Natural Hazards*.

Derakhshandeh, M. (2022). Microalgae as a Source for Bioenergy: a Search for an Energy-Efficient Process. *Bioenergy Research*.

Derakhshandeh, M., Tombul, M. (2022). Calibration of METRIC Modeling for Evapotranspiration Estimation Using Landsat 8 Imagery Data. *Water Resources Management*, 36 (1), pp. 315-339.

Husseini, A.A., Derakhshandeh, M., Tatlisu, N.B. (2022). Comprehensive Review of Transcriptomics (RNAs) Workflows from Blood Specimens. *Separation and Purification Reviews*, 51 (1), pp. 57-77.

2021

Derakhshandeh, M., Ateş, F., Tezcan Un, U. (2021). Renewable Bio-Oil from Pyrolysis of *Synechocystis* and *Scenedesmus* Wild-Type Microalgae Biomass. *Bioenergy Research*, 14 (3), pp. 991-1001.

Derakhshandeh, M., Atici, T., Tezcan Un, U. (2021). Evaluation of Wild-Type Microalgae Species Biomass as Carbon Dioxide Sink and Renewable Energy Resource. *Waste and Biomass Valorization*, 12 (1), pp. 105-121.

CIVIL ENGINEERING



Assist. Prof. Dr. Hasan Emre OKTAY

Background

Dr. Hasan Emre Oktay has obtained his B.S., M.Sc. and PhD. degrees from Middle East Technical University in 2007, 2012 and 2020, respectively. His Master of Science thesis, titled "Finite Element Analysis of Laboratory Model Experiments on Behavior of Shallow Foundation Under General Loading" is on Geotechnical Engineering field. His PhD. is on Construction Materials division and his thesis title is "Micromechanical Modeling of Semicrystalline Polymers with Spherulite Morphology". During his PhD. study, he has taken a part in a TÜBİTAK project titled "Multi-scale modelling of Ultra High Molecular Weight Polyethylene".

Contact

heoktay@gelisim.edu.tr

Academic and Administrative Experience

Research Fields:

Structural Mechanics

He is an Asst. Prof. Dr. in the Civil Engineering Department of İstanbul Gelişim University since 2021. Soil Mechanics, Foundation Engineering, Statics and Strength of Materials, Computer Aided Technical Drawing, Reinforced Concrete and Steel Frame Structures are among the B.Sc. lectures that he has been giving in Turkish or English languages. He has given Numerical Methods in Civil Engineering course to M.Sc. students.

Studies on the simulations of geotechnical engineering problems, mechanics of materials and the development of homogenization methods are among his research interests.

CIVIL ENGINEERING



Assist. Prof. Dr. Aylin Ece KAYABEKİR

Background

Dr. Aylin Ece KAYABEKİR studied in Istanbul University at Department of Civil Engineering between 2011-2015. She received her master degree in 2018 and doctoral degree in 2021 from Istanbul University. Also, she got 100/2000 YOK (Council of higher education) scholarship during her doctoral education.

Contact

aekayabekir@gelisim.edu.tr

Research Fields:

Active and Passive
Structural Control Systems

Metaheuristic Algorithms

Optimization Methods

Analysis of Axisymmetric
Cylindrical Walls

Defense Systems
Design

Artificial Intelligence and
Machine Learning
Applications

Academic and Administrative Experience

She wrote her master's thesis on " Optimization Applications by Metaheuristic Algorithms in Structural Engineering ". Within the scope of the thesis, a methodology has been developed in order to find optimum designs of various problems such as truss system, retaining walls, reinforcement with CFRP using artificial intelligence optimization algorithms (metaheuristic algorithms). In addition, computer programs have been prepared to solve these problems.

Her PhD thesis on " Control of structures by active tuned mass dampers optimized via metaheuristic methods" received YÖK 100/2000 doctorate scholarship as well as supported by Tübitak doctorate scholarship program. Within the scope of the thesis, the optimum design of Active Tuned Mass Dampers (ATMDs) placed in the structure was done in order to reduce the structural responses due to earthquakes in multi-storey buildings. The methodology was suggested for optimum designs with developed computer program.

Between 2017-2018, she worked as researcher at Yeditepe University, Faculty of Engineering, Department of Civil Engineering. In this process, she took part as an assistant in various courses, especially in the "Introduction to Statics" and "Earthquake Engineering" courses. In 2021, she started to work as Assistant Professor Doctor at Istanbul Gelişim University, Department of Civil Engineering. At Istanbul Gelisim University, where she is currently working, she teaches courses Statics, Strength of Materials I, Structural Analysis I, Structural Analysis I, Building Statics and Strength, Graduation Design Project, Computer Aided Technical Drawing, Computer Applications in Civil Engineering in undergraduate program. She also teaches Numerical Methods in Structural Mechanics and Optimization Theory coursed in postgraduate programs.

CIVIL ENGINEERING

Assist. Prof. Dr. Aylin Ece KAYABEKİR

Publications

Dr. Aylin Ece KAYABEKİR has carried out a total of 96 scientific research during her academic career that can be listed below.

- International Journal Papers (SCI-SCI Expanded): 17
- International Journal Papers (Other indexes): 9
- Books: 3
- Chapters in International Books: 15
- International Conference Proceedings: 37
- International research projects: 1
- Journal paper (ULAKBIM indexes): 6
- National research projects: 4
- National patents: 2
- Patent Application (under evaluation): 2

During her academic researches, she collaborated with respected scientists, who are in the world's top 2% scientists list published by Stanford University and Elsevier, Prof. Xin-She Yang (Rank 42) and Prof. Zong Woo Geem (Rank 4532). Especially in recent years, many scientific publications, especially articles in SCI-SCI Expanded indexes, have been produced from the studies carried out with Prof. Zong Woo Geem and supported by the South Korean Ministry of Science National Research Fund (NRF).

In addition to these, a study of Dr. Aylin Ece KAYABEKİR has been published in the "Computer-Aided Civil and Infrastructure Engineering" journal, (Q1 Category with 11,775 Impact Factors) which ranks 1st among 137 journals in the field of construction and building technology.

Books and book chapters constitute another important part of academic activities of Dr. Aylin Ece KAYABEKİR. These have been published in respected and well-known publisher such as Springer and IGI Global. In addition, she has a book on artificial intelligence published by the well-known national publisher Seçkin.

The publications of Dr. Aylin Ece KAYABEKİR have been met with interest in the scientific world and have been used as a reference in many scientific publications. The list of citations are as follows:

Index	Publication Number	Citation Number	h-index
Google Scholar	69	528	13
Scopus	42	320	10
Web of Science	21	202	8

CIVIL ENGINEERING

Assist. Prof. Dr. Aylin Ece KAYABEKİR

Publications

2023

Bekdaş, G., Nigdeli, S.M., Kayabekir, A.E. (2023). Optimum Design and Tuning Applications in Structural Engineering via Swarm Intelligence. *Studies in Computational Intelligence*, 1054, pp. 109-134.

2022

Bekdaş, G., Arama, Z.A., Türkakın, O.H., Kayabekir, A.E., Geem, Z.W. (2022). Cantilever Soldier Pile Design: The Multiobjective Optimization of Cost and CO2 Emission via Pareto Front Analysis. *Sustainability (Switzerland)*, 14 (15), art. no. 9416.

Kayabekir, A.E., Nigdeli, S.M., Bekdaş, G. (2022). A hybrid metaheuristic method for optimization of active tuned mass dampers. *Computer-Aided Civil and Infrastructure Engineering*, 37 (8), pp. 1027-1043.

Yucel, M., Kayabekir, A.E., Nigdeli, S.M., Bekdaş, G. (2022). Optimum design of carbon fiber-reinforced polymer (CFRP) beams for shear capacity via machine learning methods: Optimum prediction methods on advance ensemble algorithms - Bagging combinations. *Research Anthology on Machine Learning Techniques, Methods, and Applications*, pp. 308-326.

Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M. (2022). Control of Reinforced Concrete Frame Structures via Active Tuned Mass Dampers. *Lecture Notes on Data Engineering and Communications Technologies*, 140, pp. 271-277.

Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M., Apak, S. (2022). Cost and environmental friendly multi-objective optimum design of reinforced concrete columns. *Journal of Environmental Protection and Ecology*, 23 (2), pp. 890-899.

Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M. (2022). Optimum Tuning of Active Mass Dampers via Metaheuristics. *Studies in Systems, Decision and Control*, 432, pp. 155-174.

Bekdaş, G., Nigdeli, S.M., Kayabekir, A.E. (2022). Introduction and Overview: Structural Control and Tuned Mass Dampers. *Studies in Systems, Decision and Control*, 432, pp. 1-13.

Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M. (2022). The Effect of Structural Rigidity Uncertainties on ATMD Controlled Structures. *WSEAS Transactions on Systems*, 21, pp. 32-38.

Nigdeli, S.M., Bekdaş, G., Yücel, M., Kayabekir, A.E., Toklu, Y.C. (2022). Analysis of Non-linear Structural Systems via Hybrid Algorithms. *Lecture Notes in Networks and Systems*, 371, pp. 536-545.

Kayabekir, A.E., Nigdeli, S.M., Bekdaş, G. (2022). Adaptive Harmony Search for Cost Optimization of Reinforced Concrete Columns. *Lecture Notes in Networks and Systems*, 371, pp. 35-44.

CIVIL ENGINEERING

Assist. Prof. Dr. Aylin Ece KAYABEKİR

Publications

2021

Yücel, M., Bekdaş, G., Nigdeli, S.M., Kayabekir, A.E. (2021). An Artificial Intelligence-Based Prediction Model for Optimum Design Variables of Reinforced Concrete Retaining Walls. *International Journal of Geomechanics*, 21 (12), art. no. 04021244.

Kayabekir, A.E., Arama, Z.A., Bekdaş, G. (2021). Effect of application factors on optimum design of reinforced concrete retaining systems. *Structural Engineering and Mechanics*, 80 (2), pp. 113-127.

Kayabekir, A.E. (2021). Effects of Constant Parameters on Optimum Design of Axially Symmetric Cylindrical Reinforced Concrete Walls. *Structural Design of Tall and Special Buildings*, 30 (6), art. no. e1838.

Toklu, Y.C., Bekdas, G., Yücel, M., Nigdeli, S.M., Kayabekir, A.E., Kim, S., Geem, Z.W. (2021). Total potential optimization using metaheuristic algorithms for solving nonlinear plane strain systems. *Applied Sciences (Switzerland)*, 11 (7), art. no. 3220.

Yücel, M., Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M., Kim, S., Geem, Z.W. (2021). Adaptive-hybrid harmony search algorithm for multi-constrained optimum eco-design of reinforced concrete retaining walls. *Sustainability (Switzerland)*, 13 (4), art. no. 1639, pp. 1-20.

Arama, Z.A., Kayabekir, A.E., Bekdaş, G., Kim, S., Geem, Z.W. (2021). The usage of the harmony search algorithm for the optimal design problem of reinforced concrete retaining walls. *Applied Sciences (Switzerland)*, 11 (3), art. no. 1343, pp. 1-28.

Farzam, M.F., Jalali, H.H., Gavgani, S.A.M., Kayabekir, A.E., Bekdaş, G. (2021). Current Trends in the Optimization Approaches for Optimal Structural Control. *Studies in Systems, Decision and Control*, 326, pp. 133-179.

Nigdeli, S.M., Bekdaş, G., Kayabekir, A.E., Yucel, M. (2021). Preface. *Studies in Systems, Decision and Control*, 326, pp. v-vi.

Akbay Arama, Z., Kayabekir, A.E., Bekdaş, G. (2021). Sustainable Optimum Design of RC Retaining Walls: The Influence of Structural Material and Surrounding Soil Properties. *Studies in Systems, Decision and Control*, 326, pp. 249-297.

Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M. (2021). Developments on Metaheuristic-Based Optimization in Structural Engineering. *Studies in Systems, Decision and Control*, 326, pp. 1-22.

Toklu, Y.C., Bekdaş, G., Kayabekir, A.E., Nigdeli, S.M., Yücel, M. (2021). Total Potential Optimization Using Hybrid Metaheuristics: A Tunnel Problem Solved via Plane Stress Members. *Studies in Systems, Decision and Control*, 326, pp. 221-236.

Kayabekir, A.E., Nigdeli, M. (2021). Statistical Evaluation of Metaheuristic Algorithm: An Optimum Reinforced Concrete T-beam Problem. *Studies in Systems, Decision and Control*, 326, pp. 299-310.

Kayabekir, A.E., Nigdeli, S.M., Bekdaş, G. (2021). Robustness of Structures with Active Tuned Mass Dampers Optimized via Modified Harmony Search for Time Delay. *Advances in Intelligent Systems and Computing*, 1275, pp. 53-60.

CIVIL ENGINEERING

Assist. Prof. Dr. Aylin Ece KAYABEKİR

Publications

2021

Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M. (2021). The Effect of Initial Values on Metaheuristic-Based Optimum Design of Tuned Mass Dampers. *Advances in Intelligent Systems and Computing*, 1275, pp. 81-91.

Toklu, Y.C., Bekdaş, G., Kayabekir, A.E., Nigdeli, S.M., Yücel, M. (2021). Total Potential Optimization Using Metaheuristics: Analysis of Cantilever Beam via Plane-Stress Members. *Advances in Intelligent Systems and Computing*, 1275, pp. 127-138.

Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M. (2021). Evaluation of Metaheuristic Algorithm on Optimum Design of T-Beams. *Advances in Intelligent Systems and Computing*, 1275, pp. 155-169.

Kayabekir, A.E. (2021). Computation of Axial Symmetric Cylindrical Reinforced Concrete Walls with Domes. *Advances in Intelligent Systems and Computing*, 1275, pp. 249-259.

2020

Toklu, Y.C., Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M., Yücel, M. (2020). Analysis of Plane-Stress Systems via Total Potential Optimization Method Considering Nonlinear Behavior. *Journal of Structural Engineering (United States)*, 146 (11), art. no. 04020249.

Arama, Z.A., Kayabekir, A.E., Bekdaş, G., Geem, Z.W. (2020). CO2 and cost optimization of reinforced concrete cantilever soldier piles: A parametric study with harmony search algorithm. *Sustainability (Switzerland)*, 12 (15), art. no. 5906.

Kayabekir, A.E., Arama, Z.A., Bekdaş, G., Nigdeli, S.M., Geem, Z.W. (2020). Eco-friendly design of reinforced concrete retaining walls: Multi-objective optimization with harmony search applications. *Sustainability (Switzerland)*, 12 (15), art. no. 6087.

Bekdaş, G., Arama, Z.A., Kayabekir, A.E., Geem, Z.W. (2020). Optimal design of cantilever soldier pile retaining walls embedded in frictional soils with harmony search algorithm. *Applied Sciences (Switzerland)*, 10 (9), art. no. 3232.

Kayabekir, A.E., Bekdaş, G., Nigdeli, S.M., Geem, Z.W. (2020). Optimum design of PID controlled active tuned mass damper via modified harmony search. *Applied Sciences (Switzerland)*, 10 (8), art. no. 2976.

Kayabekir, A.E., Toklu, Y.C., Bekdaş, G., Nigdeli, S.M., Yücel, M., Geem, Z.W. (2020). A novel hybrid harmony search approach for the analysis of plane stress systems via total potential optimization. *Applied Sciences (Switzerland)*, 10 (7), art. no. 2301.

Kayabekir, A.E., Bekdas, G., Nigdeli, S.M. (2020). Metaheuristic approaches for optimum design of reinforced concrete structures: Emerging research and opportunities. *Metaheuristic Approaches for Optimum Design of Reinforced Concrete Structures: Emerging Research and Opportunities*, pp. 1-229.

CIVIL ENGINEERING

Assist. Prof. Dr. Aylin Ece KAYABEKİR

Patents

In addition to scientific studies, there are 4 patent studies among the works carried out within the scope of intellectual property rights. These are summarized below.

Tehlike Kaynaklarını Tespit Etmek İçin Bir İnsansız Hava Aracı

The aim of the present invention is to develop a drone that can remotely detect danger sources by working in coordination with a main security system.

Yola Gömülü Mayın Ve Patlayıcı Tarayıcı Dizgesi

The invention relates to an explosive scanning system consisting of armored vehicles with a scanning device and drones developed for the detection of substances that are hidden underground and can be used for attack.

Yapı Bilgi, Yapı Sağlığı İzleme ve Afet Yönetim Sistemi (under evaluation)

The invention is a system developed for building information, building health monitoring and disaster management, which measures the movements that may occur in structural systems such as buildings, bridges and retaining walls due to the dynamic forces affecting the structures, especially earthquakes and floods, and provides the dispatch of units to the scene in emergency situations.

Güvenlik Sistemi İçin Yönlendirilmiş Enerji Sistemi (under evaluation)

The invention relates to the drone, which is developed to neutralize the person acting for the purpose of attack or the vehicles used for the attack, through the devices positioned on its body.

Projects

Within the scope of international projects, he continues to work as a researcher in 1 project study. In addition, he took part in a total of 4 national research projects. These projects are summarized below.

Restricted optimum design of reinforced concrete retaining walls (2016-2017)

It is the first project that Dr. Aylin Ece KAYABEKİR worked as a researcher. Within the scope of the study, computer program was developed by using artificial intelligence optimization algorithms to analyze and design console type retaining walls. The results obtained in the study were published in articles and scientific meetings in international journals. Apart from that, the developed program continues to be used in comparative analysis in our scientific studies.

CIVIL ENGINEERING

Assist. Prof. Dr. Aylin Ece KAYABEKİR

Projects

Personel taşıyıcı araçları patlama etkilerinden koruyan bir zırh tasarımı: Modelleme ve Analiz (2018-2019)

This project is about detailed analysis of armor design developed in 2017 against Turkish terrorist attacks against military and civilian targets and registered by Turkish patent. Within the scope of the project, using the ABAQUS software, the detonation effect was carried out in order to simulate the model created in computer environment. The results obtained are intended for use in rapid prototyping.

The results obtained within the scope of the project were evaluated and the project team continues to work on the next stages.

Metasezgisel Algoritmalar ile Aktif Kontrol Sistemlerinin Parametrelerinin Belirlenmesi (2019-2020)

It is another project that Dr. Aylin Ece KAYABEKİR worked as a researcher. Passive and active control systems are used to dampen and reduce vibrations caused by dynamic external influences such as earthquakes and wind in buildings. In order for these systems to be effective, the parameters of the systems, which have an important effect on the earthquake behavior of the building, should be determined in the most appropriate way. Within the scope of this project, active regulated mass dampers were investigated in these systems. Within the scope of the project, a computer program has been developed using artificial intelligence optimization algorithms for this purpose. The results obtained within the scope of the project have been the subject of numerous scientific publications in articles and scientific meetings in international journals (I presented in my resume). Apart from that, the developed program continues to be used in comparative analysis in our scientific studies.

Üç Boyutlu Uzay Kafes Sistemler için Yeni Optimizasyon Yaklaşımları (2019-2023)

Within the scope of the project, three-dimensional truss systems with various practical application areas, artificial intelligence optimization algorithms, new approaches analysis are evaluated. The aim is to find faster and better results. Thanks to the software to be developed within the scope of the ongoing project, it is aimed to be used for designing more economical and environmentally sensitive systems.

Design Optimization of a Hybrid Vibration Control System for Buildings Structures (2022-continue)

In this project, control of building structures under seismic excitations are investigated using a passive hybrid control system consisting of a base-isolation subsystem and a passive tuned liquid column damper (TLCD) system. For this purpose, an optimization method based on dynamic analysis of the structure and metaheuristic optimization methods are developed and a computer code is written. In addition, numerical simulations have been performed on some examples of buildings structures to investigate the effectiveness of the optimized hybrid control system in controlling the seismic response of the buildings.

CIVIL ENGINEERING



Assist. Prof. Dr. Yosra M.A TAMMAM

Background

Dr. Yosra TAMMAM obtained her undergraduate degree in civil engineering from An-Najah National University in 2008, her master's degree from Istanbul Technical University in 2013, and her Ph.D. from Istanbul University-Cerrahpasa in 2021. After completing her master's degree, she worked as a project engineer at TİKA - Turkish Cooperation and Coordination Agency. Also, during her Ph.D., she worked as a researcher in the Higher Education Institutions Supported Project named "determination of mechanical and durability properties of sustainable geopolymer composites with waste concrete aggregate." She has worked as an assistant professor at Istanbul Gelişim University-Civil Engineering Department since February 2022.

Contact

ymtammam@gelisim.edu.tr

Academic and Administrative Experience

Research Fields:

Nano Materials

Restoration with FRP

Fiber Composites

Engineered Cement-based composite (ECC)

Concrete Technology

Sustainability

Dr. Yosra TAMMAM teaches many courses (Statics, Computer Aided Technical Drawing, Building Materials, Structural analysis and strength of materials, Construction Management, and Graduation Project) at the undergraduate level in English and Turkish. Also, she teaches many courses (special topics in building materials, Scientific research techniques, and Seminars) at the master and doctoral levels.

According to the Scopus database, Dr. Yosra TAMMAM has four Q1 articles, one Q2 article, and one paper on international conferences. Apart from SCI and ESCI publications, she has four national and international articles.

Also, Dr, Yosra TAMMAM, has written the chapter 'Research of Alternative Ecological Waste Materials Used in Geopolymers for Sustainable Built Environments' in the book 'Urban Sustainability and Energy Management of Cities for Improved Health and Well-Being' published in IGI Global.

Her research is in building materials focusing on Geopolymer, Nano Materials, Restoration with FRP, Fiber composites, Engineered Cement-based composite (ECC), Concrete Technology, and Sustainability. Since the greenhouse gas released during cement production causes great harm to nature and the environment, Dr. Yosra TAMMAM continues to work on producing environmentally friendly composites by using waste materials as binders instead of cement. In addition, she produces environmentally friendly and economical geopolymers using industrial wastes and aggregates from demolished buildings as aggregates in these composites. Moreover, she continues to work on the examination of the mechanical and durability performances of the sustainable composites produced.

CIVIL ENGINEERING

Assist. Prof. Dr. Yosra M.A TAMMAM

Publications

2023

Tammam, Y., Uysal, M., Canpolat, O., Kuranlı, Ö.F. (2023). Effect of Waste Filler Materials and Recycled Waste Aggregates on the Production of Geopolymer Composites. *Arabian Journal for Science and Engineering*, 48 (4), pp. 4823-4840.

2022

Tammam, Y., Uysal, M., Canpolat, O. (2022). Durability properties of fly ash-based geopolymer mortars with different quarry waste fillers. *Computers and Concrete*, 29 (5), pp. 335-346.

Ziada, M., Tammam, Y., Erdem, S., Lezcano, R.A.G. (2022). Investigation of the Mechanical, Microstructure and 3D Fractal Analysis of Nanocalcite-Modified Environmentally Friendly and Sustainable Cementitious Composites. *Buildings*, 12 (1), art. no. 36.

Tammam, Y., Uysal, M., Canpolat, O. (2022). Effects of alternative ecological fillers on the mechanical, durability, and microstructure of fly ash-based geopolymer mortar. *European Journal of Environmental and Civil Engineering*, 26 (12), pp. 5877-5900.

2021

Ziada, M., Erdem, S., Tammam, Y., Kara, S., Lezcano, R.A.G. (2021). The effect of basalt fiber on mechanical, microstructural, and high-temperature properties of fly ash-based and basalt powder waste-filled sustainable geopolymer mortar. *Sustainability (Switzerland)*, 13 (22), art. no. 12610.

CIVIL ENGINEERING



Assist. Prof. Dr. Gökhan KAZAR

Background

Dr. Gökhan Kazar received his undergraduate degree from Yıldız Technical University in 2012, and his Master and Ph.D. degrees from Boğaziçi University in the field of Civil Engineering-Construction Management area in 2015 and 2020, respectively.

Contact

gkazar@gelisim.edu.tr

Academic and Administrative Experience

Research Fields:

Construction Management

During his graduate education, he took part as a scholarship student in the project entitled "Development of a Virtual Environment-Based Occupational Safety and Health Simulation Training Tool for Scaffolding and Formwork Activities" within the scope of TUBITAK 3501 - Career Development Program carried out under the body of Boğaziçi University Civil Engineering Department between 2016-2018. Under the scope of the project, a game-based safety training tool was developed for scaffolding and formwork installation, and the effectiveness of the developed game was tested with real workers at construction sites.

Along with this project, he took part in the project called "Real-Time Energy Consumption Monitoring to Ensure Energy Efficiency in Buildings", which was implemented in student dormitories under the BAP research program at Boğaziçi University Civil Engineering Department. Under the scope of the project, an web-based monitoring system was developed and applied to Kilyos dormitories and a data monitoring system was established.

For his Ph.D. research project, he collected real-time physiological data from real construction workers and performed correlation analyzes between past accident and collected physiological data in order to investigate the relationship between physiological risk factors and construction accidents.

In 2018, he joined Istanbul Şehir University Civil Engineering (Eng) Department as a research assistant and in 2020, when he received his Ph.D. degree, he joined Istanbul Gedik University Civil Engineering Department as an Assistant Professor. During this period, he also worked as a visiting professor at Istanbul Medipol University Architecture Department about 1 year and gave "Digital Design Tools" lectures. Then, he has been Assistant Professor in Istanbul Gelisim University Civil Engineering (Eng) Department.

CIVIL ENGINEERING

Assist. Prof. Dr. Gökhan KAZAR

Academic and Administrative Experience

After completing his graduate education, Dr. Kazar mostly carried out studies related to the artificial intelligence-based solutions for construction management processes. In this sense, he carried out different studies with the research group "Artificial Intelligence in Construction Management", which was established under the Civil Engineering Department of the Middle East Technical University. Under the scope of these studies, his research has intensely focused on occupational health and safety, budget controls, quality problems in construction, new economic and construction management models.

Until now, he has taught several courses such as Construction Management, Construction Contracts Management, Scheduling and Planning, Engineering Economics, Project Management, Occupational Health and Safety, Sustainability at Civil Engineering Departments in both English and Turkish at undergraduate and graduate levels. So far, he has 7 SSCI-SCI studies (3 Q1, 3 Q2 and 1 Q4) in the field of Construction Management and 3 studies in national journals. In addition, 3 research articles were published in international conferences. Dr. Kazar has graduated 9 students (thesis programs).

Publications

2023

Kazar, G., Doğan, N.B., Ayhan, B.U., Tokdemir, O.B. (2022). Quality Failures-Based Critical Cost Impact Factors: Logistic Regression Analysis. *Journal of Construction Engineering and Management*, 148 (12), art. no. 04022138.

Doğan, N.B., Ayhan, B.U., Kazar, G., Saygili, M., Ayözen, Y.E., Tokdemir, O.B. (2022). Predicting the Cost Outcome of Construction Quality Problems Using Case-Based Reasoning (CBR). *Buildings*, 12 (11), art. no. 1946.

Kazar, G., Comu, S. (2022). Developing a Virtual Safety Training Tool for Scaffolding and Formwork Activities. *Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers*, 33 (2), pp. 11729-11748.

Kazar, G., Comu, S. (2022). Exploring the relations between the physiological factors and the likelihood of accidents on construction sites. *Engineering, Construction and Architectural Management*, 29 (1), pp. 456-475.

Kazar, G., Mutlu, U., Tokdemir, O.B. (2022). Development of zero-based budgeting approach for multinational construction contractors. *Engineering, Construction and Architectural Management*.

2021

Comu, S., Kazar, G., Marwa, Z. (2021). Evaluating the attitudes of different trainee groups towards eye tracking enhanced safety training methods. *Advanced Engineering Informatics*, 49, art. no. 101353.

Kazar, G., Comu, S. (2021). Effectiveness of Serious Games for Safety Training: A Mixed Method Study. *Journal of Construction Engineering and Management*, 147 (8), art. no. 04021091-1.

CIVIL ENGINEERING



Assist. Prof. Dr. Hamit ÖZTÜRK

Background

Assistant Professor Doctor Hamit Öztürk was born in Tabriz/Iran, in 1984. He graduated from the undergraduate program of the civil engineering program, at Islamic Azad University, Iran (2006) and then passed the exam in the bachelor program as the third. He received his bachelor's degree in civil engineering program in the Islamic Azad University, Iran, (2008). He received his master's degree under the supervision of Associate Professor Erdiñ Soyler in the Building and Construction program at Eastern Mediterranean University, North Cyprus (2009-2012). In this thesis, the effect of the integrated force method and dual integrated force methods on the space truss structures, of three separate analysis packages was studied using the MATHEMATICA program. During the master's program, he took some building materials courses and expanded his scientific research on Building Materials. Therefore, he continued his study on Building Materials to receive a Ph.D. degree at Istanbul University (2013-2021). He started laboratory experiments after the proficiency exam (2016) and defended his thesis titled "Behaviour Investigation of Concrete with Admixtures Exposed to Different Conditions" in 2021.

Contact

haozturk@gelisim.edu.tr

Academic and Administrative Experience

He has started to work as a Doctorate staff at Istanbul Gelişim University since February of 2023. Dr.Hamit Öztürk has enough experience in the supervision of undergraduate/graduate students.

Research Fields:

Building Material

Nanotechnology

Durability

Sustainability

Mineral Additives

Concrete Microstructure

Publications

2022

Hamit Öztürk, Fahriye M.Kılınçkale, "The effect of wetting-drying / freezing-thawing cycles on properties of non-air entrained fly ash substituted cement-based composites, "Ceramics International, 2022. <https://doi.org/10.1016/j.ceramint.2022.11.294>

Book Chapters

2022

Hamit Öztürk, Mahmoud Ziada, Savaş Erdem, "Modification of Fly Ash Supplemented Cement-Based Composites with Nanomaterials, (Kabul edildi, Uluslararası yayınevi, Baskı tarihi:25-30 Aralık 2022).

Hamit Öztürk, Assembling of Compatibility Condition Matrix Via Null Space and Singular Value Decomposition in Integrated Force Method To Analyze Space Truss, (kabul edildi, Uluslararası yayınevi, Baskı tarihi:25-30 Aralık 2022)

CIVIL ENGINEERING



Assist. Prof. Dr. Mahmut TANER

Background

Mr. Mahmut Taner received his Bsc and Msc degrees in Statistics from Shahid Beheshti University and Tarbiat Moalem University, in 2001 and 2004, respectively. In 2013, he received his doctorate degree in Mathematics from Eastern Mediterranean University, specializing in number theory.

Contact

mtaner@gelisim.edu.tr

Academic and Administrative Experience

Mr. Mahmut Taner is an Assistant Professor of Mathematics at Istanbul Gelişim University. After completing his doctorate, he worked as an assistant professor in the Department of Mathematics at Bahçeşehir University for 9 years, and then joined Istanbul Gelişim University in 2022.

Research Fields:

Quantum Calculus

Fractional Differential Equations

Number Theory

Special Functions

Publications

2023

Sari, M., Yalcin, I.E., Taner, M., Cosgun, T., Ozyigit, I.I. (2023). An investigation on environmental pollution due to essential heavy metals: a prediction model through multilayer perceptrons. *International Journal of Phytoremediation*, 25 (1), pp. 89-97.

2022

Sari, M., Cosgun, T., Yalcin, I.E., Taner, M., Ozyigit, I.I. (2022). Deciding Heavy Metal Levels in Soil Based on Various Ecological Information through Artificial Intelligence Modeling. *Applied Artificial Intelligence*, 36 (1), art. no. 2014189.

2021

Alderremy, A.A., Belaghi, M.J.S., Saad, K.M., Allahviranloo, T., Ahmadian, A., Aly, S., Salahshour, S. (2021). Analytical solutions of q-fractional differential equations with proportional derivative. *AIMS Mathematics*, 6 (6), pp. 5737-5749.

Belaghi, M.J.S., Sari, M. (2021). Behaviour of the first-order q-difference equation. *International Journal of Optimization and Control: Theories and Applications*, 11 (1), pp. 68-74.

2020

Belaghi, M.J.S. (2020). Some properties of the q-exponential functions. *Journal of Computational Analysis and Applications*, 29 (4), pp. 737-741.

Belaghi, M.J.S., Kuruoğlu, N. (2020). Addition theorem for exton's q-exponential functions. *Journal of Computational Analysis and Applications*, 28 (3), pp. 567-572.

CIVIL ENGINEERING



Res. Assist. Oğuzhan Murat HALAT

Background

Res. Asst. Oğuzhan Murat HALAT received his undergraduate degree from Yıldız Technical University Civil Engineering Department in 2017 and his master's degree from Yıldız Technical University Coastal and Marine Engineering Program in 2020. As of 2022, he continues his education in Istanbul Technical University Hydraulic and Water Resources doctorate program. He completed his master's degree with his thesis titled "Modelling of Sea Level Changes Based on the Data of Turkish Coastal Tide-Tide Measurement Stations". His research interests include coastal engineering, coastal structures, offshore structures, offshore wind turbines. He has been working as a research assistant at Istanbul Gelişim University since January 2018.

Contact

omhalat@gelisim.edu.tr

Publications

Research

Fields:

Coastal and Marine
Engineering

Coastal Structures

Offshore Structures

Offshore Wind Turbines

2021

Oğuzhan Murat HALAT, İlke CİRİTCİ, Gül YÜCEL. (2021). Modeling Of Urban Flooding and Waterfall Effect On Stepped Streets In Istanbul, Turkey. Eskişehir Technical University Journal of Science and Technology A-Applied Sciences and Engineering, 148-159.

2020

Cansu Noberi, Kenan Şentürk, Oğuzhan Murat Halat, KAYA Atakan. (2020). Thermal Energy Storage Technologies for Sustainability: Systems Design, Assessment and Applications. Journal of Sustainable Economics and Management Studies, 87-89.

CIVIL ENGINEERING



Res. Assist. Fahrettin KURAN

Background

Res Assist. Fahrettin KURAN received his undergraduate degree from Pamukkale University in 2020. He continues his master's degree at Boğaziçi University-Kandilli Observatory and Earthquake Research Institute-Department of Earthquake Engineering. He has been working as a research assistant in the Civil Engineering Department of Istanbul Gelişim University since August 2021.

Contact

fkuran@gelisim.edu.tr

Research Fields:

Earthquake Engineering

Reinforced Concrete
Structures

CIVIL ENGINEERING



Contact

meulusan@gelisim.edu.tr

Res. Assist. Muhammed Emre ULUSAN

Background

Res. Assist. Muhammed Emre Ulsan received a bachelor's degree education at Karadeniz Technical University, Faculty of Engineering, Department of Civil Engineering between the years of 2013 and 2018. He started a master's degree education at Yildiz Technical University, Graduate School of Science and Engineering, Department of Civil Engineering, Hydraulics Program in 2019. He started to work as a Research Assistant at Istanbul Gelisim University, Faculty of Engineering and Architecture, Department of Civil Engineering in 2021. He completed his master's thesis on "Determining the Wave Energy Potential of the Marmara Sea" and contributed to the subject of Affordable and Clean Energy, one of the United Nations Sustainable Development Goals, and completed his master's degree education in 2022. He continues his Ph.D. education at Yildiz Technical University, Institute of Science, Civil Engineering Department, Hydraulics Program.

Publications

2021

Ulsan, M.E., Arı Güner, H.A. ve Yüksel, Y. (2021), "Determination of the Wave Energy Potential of Marmara Sea", 11th International 100% Renewable Energy Conference, 20-23 May 2021, pp. 31-39, Istanbul, Turkey.

Research

Fields:

Hydraulics

Coastal and Harbour
Engineering

Numerical Wave
Modeling

Renewable Energy

Wave Energy

Wind Energy

CIVIL ENGINEERING



Res. Assist. Bilge Sultan DEMİRTAŞ

Background

Res. Asst. Bilge S. Demirtaş received her undergraduate degree from Yıldız Technical University in 2016 and her graduate degree from Boğaziçi University Kandilli Observatory and Earthquake Research Institute Earthquake Engineering program in 2022. As of 2023, she continues her education at Boğaziçi University Kandilli Observatory and Earthquake Research Institute Earthquake Engineering doctorate program. She finished her master's degree with her thesis titled "The Effect of Soil Improvement Method on the Seismic Performance of Geotechnical Structures". She has been working as a research assistant at Istanbul Gelişim University since November 2021.

Contact

bsdemirtas@gelisim.edu.tr

Research Fields:

Geotechnical Engineering

Geotechnical Earthquake
Engineering

Soil Improvement
Methods

EVENTS



Technical Trip for Construction Site

A technical trip for Mahmutbey-Başakşehir-Esenyurt Metro Line was organized by Civil Engineering Club with the participation of Assoc. Prof. Dr. Anıl Niş who is one of our faculty members.

Technical Trip for Construction Site

A technical trip for Construction site of Beylikdüzü Fatih Sultan Mehmet Culture Center was organized by Civil Engineering Club with the participation of Assoc. Prof. Dr. Anıl Niş who is one of our faculty members.





Clubs Promotion Days

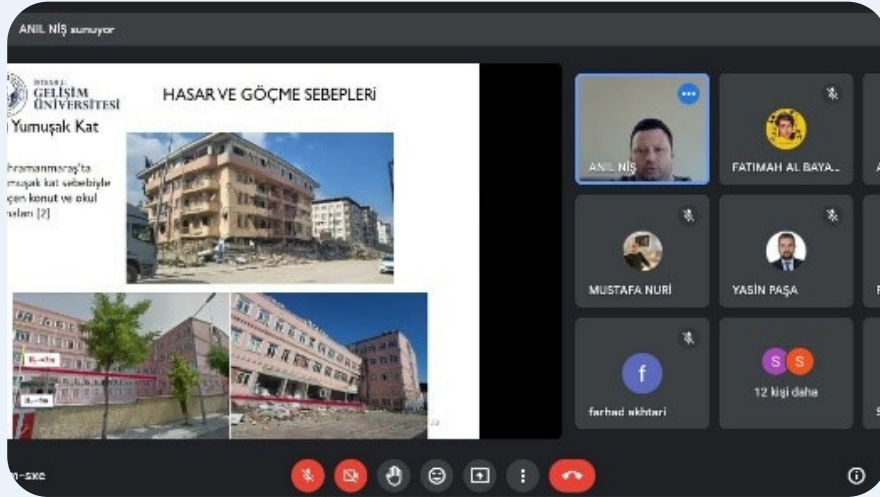
Our Civil Engineer Club came together with the students as part of the student clubs promotion days.

2022 Graduation Ceremony

Our students who graduated in 2022 and our faculty members came together at the graduation ceremony.



Seminar



After the earthquake that occurred in Kahramanmaraş on February 6, 2023, one of our faculty members Assoc. Dr. Anıl NİŞ came together with the faculty members and students of our department within the scope of the seminar titled "Damage and Causes of Collapse in Reinforced Concrete Structures Caused by Earthquakes". Commenting on the subject, Dr. Niş stated that the fact that the ground floor and sometimes some of the upper floors of the buildings are car parks or shops with glass showcases caused their destruction. In addition, weak columns-strong beams, short columns, cutting of columns, beams not connected to the columns, lack of earthquake curtains in the building, low concrete quality, flat and low strength of construction irons, absence of lateral irons (stirrups), corrosion caused by the use of sea sand. He stated that the structures were severely damaged or destroyed in the earthquake.



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OUR GRADUATES AND STUDENTS



OUR GRADUATES AND STUDENTS

Selin Ece ALTUN
Architect & Civil Engineer



I graduated from Architecture in 2020 and Civil Engineering in 2021 and completed the double major program. I am currently continuing my master's at Istanbul Gelişim University. After my undergraduate degree, I started my career as a Civil Engineer - Site Chief. Later, I worked as an architect in an interior design firm. Now, I have established my own project office. I provide services by preparing architectural and static projects, mainly residential-type projects. In my professional process, the effort of the successful staff of Istanbul Gelişim University is undeniable. I continue my working life in the light of many skills such as the working discipline, observation and questioning, analytical thinking, solution generation, and decision making that I gained during my undergraduate education. I would like to thank my dear professors and school for giving me a lot. I am proud to be a graduate of Istanbul Gelişim University.

OUR GRADUATES AND STUDENTS



Asena Pınar ÖZER
Civil Engineer

I graduated from Istanbul Gelişim University, Department of Civil Engineering, where I studied for 5 years with English preparatory education, in 2022. I am doing a master's degree with a thesis in the Department of Civil Engineering, Department of Mechanics at Yıldız Technical University, and I am studying structural mechanics, rigid body mechanics, and numerical methods.

The education I received while studying at Istanbul Gelişim University made me love the profession I chose. By broadening my horizons academically, I became an engineer who knows what to do at the end of the 5 years I spent. During my student life, I benefited a lot from the club opportunities offered by the school. I assumed the presidency of the music club and found an environment where I could take responsibility without interrupting my lessons and develop myself socially and culturally. I think that Istanbul Gelisim University brought me everything that I wanted to add to myself, both academically and socially, when I came to university.

OUR GRADUATES AND STUDENTS

Davut DURMAZ **Civil Engineer**

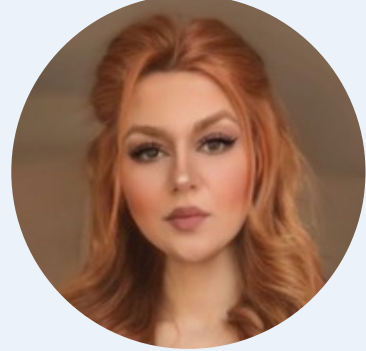


I graduated from Istanbul Gelisim University Civil Engineering Department in 2020. Siyer Yapı İnşaat Mühendislik İTH. IHR. SINGING. TRADE. LTD.ŞTİ - I am the Chairman of the Board of Directors. As Siyer Yapı, I provide Static Project Consultancy services, real estate appraisal expertise and project implementation services in Van.

Istanbul Gelisim University is technically a more innovative and positive university than the university I studied before. It is a university where we can reach our professors at the university whenever we want, use the laboratory and technical trips.

Since each of our professors at the university are experienced in their own fields and have worked in the private sector, the education is not limited to practice as they transfer their private sector experiences while giving training. It is a very good phenomenon that our university finds a job after graduation and that its students follow in their professional life. In addition, many of our friends who study engineering at our university are preferred by the children of Turkey's leading contractors, so their circle of friends can provide assistance in business life and technically.

OUR GRADUATES AND STUDENTS



Bahar TUNÇ
Head of Civil Engineering Student Club

I am a 3rd year Civil Engineering student. At the same time, due to my interest in both technical and mechanical engineering, I am a double major program student in the Aeronautical Engineering department.

In order to ensure a fully equipped participation in the rapidly advancing construction sector in the age we live in, I am studying with our experienced teachers in the department, which is focused on both professional and social development and enables us to receive training with the awareness of engineering duty.

In addition to the training provided, technical trips, various activities and practical applications organized within the scope of the Civil Engineering Club that I am the chairman of, lay the groundwork for us to have a resume that will contribute to professional life, and we enable us to step into business life by gaining experience and knowledge.

As a Civil Engineering student, I would like to express my gratitude to Istanbul Gelişim University, especially my esteemed professors, for their support and effort in building the future with innovative and dynamic ideas.



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**FACULTY OF ENGINEERING AND
ARCHITECTURE**

MECHATRONIC ENGINEERING

MECHATRONICS ENGINEERING

Prof. Dr. Hamdi Alper ÖZYİĞİT
Head of Mechatronics Engineering



Dear Students,

In the Department of Mechatronics Engineering at the Faculty of Engineering and Architecture in Istanbul Gelisim University, we offer an integrated interdisciplinary education program by taking into consideration the common issues of machinery, electrical-electronics and computer engineering that complement each other, taking into account the modern and high technologies desired by today's industry. Our main goal is to train engineers who design new, modern, environmentally sensitive and computer-aided smart products that are expected of today's world of information and technology, who are forward-looking, adapt to teamwork and who love their country and nation. In line with this objective, our students take both theoretical and practical courses in the fields of analysis and design programs, mechanical, robotic, control, automation, software and hardware design for intelligent systems as well as basic courses.

In our department, we prepare you for the future with our qualified faculty staff and adequate laboratory facilities. I believe that you will complete a successful, happy and peaceful education process in Istanbul Gelisim University, which has proven its success with its academic and social activities. In addition, having the USA-based ABET (Accreditation Board for Engineering and Technology) accreditation, which is very well-known in the world, shows and proves the success of our department in meeting the high quality of education and international standards. Within the framework of this prestigious accreditation, our department systematically organizes meetings with its stakeholders and conducts quality approaches and continuous improvement studies to advance the processes and outputs of the program. We are inviting you to join us in Istanbul, which is the most important industrial and mega city of our country.

I wish you all health and success in the hope that you will reach your dreams.

MECHATRONICS ENGINEERING

GENERAL INFORMATION



Mechatronics Engineering is a branch of engineering, which has been frequently referred to in the recent years and has become more required with the rising popularity of using smart systems and robots in the industry. Rapid development of mechanics, electronics, computer hardware and software industries and transition to smart systems in the industry enhanced with this development created the field of mechatronics engineering, which is a combination of different fields of engineering. As a combination of mechanical, electrical-electronics and computer engineering, the mechatronics engineering studies on the design and production of functional smart systems and products to be beneficial to humanity and industry. Mechatronics Engineering is a branch of engineering, which has been frequently referred to in the recent years and has become more required with the rising popularity of using smart systems and robots in the industry. Rapid development of mechanics, electronics, computer hardware and software industries and transition to smart systems in the industry enhanced with this development created the field of mechatronics engineering, which is a combination of different fields of engineering. As a combination of mechanical, electrical-electronics and computer engineering, the mechatronics engineering studies on the design and production of functional smart systems and products to be beneficial to humanity and industry. In our day that we witness transition to smart systems, which is considered as a revolution in the industry; mechatronics engineers are needed in all parts where production and technology are applicable. Having pretty wide career opportunities, mechatronics engineers are offered employment opportunities in various fields including the automotive industry, design and production of robots oriented to different sectors, industrial automation, smart sensors, weapons and weapon systems, electromechanical systems, etc. In addition to academic career, students who graduate from our program can find opportunities in many sectors such as robotic industry, production plants which has electronics, computer and mechanical parts, factories, automotive companies, telecommunication companies, equipment manufacturing firms.

MECHATRONICS ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES



1. Establish a successful career in mechatronics engineering in leading and prominent organizations
2. Gain advancement in their careers through professional development activities and pursue of higher education
3. Develop a variety of relationships in international working environments which will contribute to the respect and appreciation to the other individuals and the society
4. Practice in mechatronics engineering in a broad range of industries

MECHATRONICS ENGINEERING

MISSION

To train engineers who are equipped with knowledge and skills in the fields of Mechatronics Engineering and related disciplines, able to follow new technologies and developments, capable of questioning, able to develop new designs, benefit the society, environmentally friendly and respectful of human rights.



VISION

To be one of the leading departments in the fields of Mechatronics and related engineering with its national and international competitive contribution to science and technology.

ACADEMIC STAFF



Prof. Dr.
Hamdi Alper ÖZYİĞİT
Ph.D. Celal Bayar University



Prof. Dr.
Bedri YÜKSEL
Ph.D. Atatürk University



Assoc. Prof. Dr.
Bülent GÜZEL
Ph.D. University of British
Columbia



Asst. Prof. Dr.
Cansu NOBERİ
Ph.D. Yıldız Technical University



Asst. Prof. Dr.
Kenan ŞENTÜRK
Ph.D. Yeditepe University



Asst. Prof. Dr.
Safar POURABBAS
Ph.D. Nanyang Technological
University



Asst. Prof. Dr.
Haydar İzzettin KEPEKÇİ
Ph.D. İstanbul University



Res. Asst. Tunay ACIMAN



Res. Asst. Ufuk ATEŞOĞLU

MECHATRONICS ENGINEERING

UNDERGRADUATE PROGRAM

The Department of Mechatronics Engineering provides education as a Turkish Program. Our curriculum has been prepared in accordance with the ECTS system and is accredited by ABET and consists of 8 semesters. The curriculum includes basic science courses, departmental courses, departmental elective courses, social elective courses and non-departmental elective courses, as well as 2 compulsory summer internships. Along with the compulsory courses, the students are provided with basic information about the profession, while the elective courses are aimed at taking the courses related to the interests of the students.

Istanbul Gelisim University Mechatronics Engineering Department received its first students in the 2011-2012 academic year.

MECHATRONICS ENGINEERING

GRADUATE PROGRAM

In our Mechatronics Engineering Master's Program with Thesis, we train high-level mechatronics engineers needed in the sector and contribute to the sector in academic and sectoral terms. Mechatronics Engineering Master's Program with Thesis is capable of carrying out the design, operation, maintenance, repair and development activities of all kinds of electro-mechanical systems with its mechanical, electronic, software development and control algorithm development capabilities, performing innovative robotic system designs and following the developments and innovations in this field. It trains specialist engineers and researchers who can provide solidity to science. With the Mechatronics Engineering Master's Program with Thesis, it is aimed to train entrepreneurial and productive mechatronics engineers who can show the difference in academic level, think creatively, critically and analytically, represent our country at international level, compete with superior competitiveness in the competitive market, produce fast and effective solutions to contemporary problems.



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**AKADEMIC CV
AND
SCIENTIFIC STUDIES**

MECHATRONICS ENGINEERING



Prof. Dr. Hamdi Alper ÖZYİÇİT

Background

Prof. Dr. Hamdi Alper ÖZYİÇİT received his bachelor's degree from Istanbul Technical University in 1989 and his master's and Ph.D from Celal Bayar University in 1996 and 2001. Undergraduate Level; He lectured Introduction to Mechatronics Engineering, Computer Programming, Control Systems, Statics, Dynamics, Machine Theory I, Machine Theory II, Mechanical Vibrations, Master's Level; He lectured Dynamics of Continuous Systems, Advanced Vibration Analysis, Vibration Analysis of Continuous Systems.

Contact

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Research Areas

Artificial Neural Networks

Blast Furnaces

Finite Element Method

Mechanical Vibrations

Machine Dynamics

Dynamics of Continuous Systems

Active Suspension Systems

Profession

Mechanical Engineering

Machine Theory and Dynamics

Publications

- 2022 • In 2022, he published an article titled Mechanical behavior of a friction welded AA6013/AA7075 beam in the journal Materials Testing.
- <https://doi.org/10.1515/mt-2021-2041>

MECHATRONICS ENGINEERING



Prof. Dr. Bedri YÜKSEL

Background

Prof. Dr. Bedri YÜKSEL received his bachelor's degree from Karadeniz Technical University in 1977 and his Ph.D from Atatürk University in 1984.

At the undergraduate level; He lectured Automotive Mechatronics, Dynamics, Heating and Ventilation Systems, Building Installation Systems, Energy Efficient Construction Design, Thermodynamics, Construction Installation Systems, Mechatronics System Design, Engines I, Engines II, Power Plants, Thermodynamics I, Thermodynamics II, at the master's level; He lectured New and Renewable Energy Systems, R&D Project Preparation Techniques, Energy Conversion Principles, at the doctorate level; He lectured Engine test Methods, Planning and Improvement of Large Capacity Heat Production and Utilization Centers

Contact

✉ byuksel@gelisim.edu.tr

Research Areas

Energy

Energy-Saving

Renewable Energy Sources

Internal Combustion Engines

Thermodynamics

Construction Installation

Profession

Mechanical Engineering

Energy

Thermodynamics

Publications

- 2022 • Kon, O., Yuksel, B., Karaoglan, A. D., Modeling the relationship between outdoor meteorological data and energy consumptions at heating and cooling periods: Application in a university building, Numerical Algebra, Control and Optimization
- 2021 DOI: 10.3934/naco.2022021
- Bakirci, K., & Yuksel, B., Simulation study of solar-source heat pump system with sensible energy storage, Journal of Thermal Analysis and Calorimetry,
- 2020 DOI: 10.1007/s10973-020-10091-5
- Asnaz, M. S. K., Yuksel, B., & Ergun, K., Optimal Siting of Wind Turbines in a Wind Farm., Mathematical Modelling and Optimization of Engineering Problems
- DOI: 10.1007/978-3-030-37062-6_6

MECHATRONICS ENGINEERING



Assoc. Prof. Dr. Bülent GÜZEL

Background

Assoc. Dr. Bülent GÜZEL received his bachelor's degree from Yıldız Technical University in 1995, his master's degree from Istanbul Technical University in 2003 and his Ph.D from University of British Columbia in 2009.

At the undergraduate level; He lectured Numerical Methods, Fluid Mechanics, Basic Computer Science, Pumps and Compressors, Maritime English. At the master's level; He lectured Research and Solution Techniques in Engineering Problems

Contact

 bguzel@gelisim.edu.tr

Research Areas

Fluid Mechanics

Energy

Computational Fluid Dynamics

Profession

Mechanical Engineering

Fluid Mechanics

Energy

Publications

- 2023 • Korkmaz F.C., Güzel B., On the effects of the number of baffles in sloshing dynamics, Ships and Offshore Structures,
Volume / Page:: 10.1080/17445302.2021. 2007676
- 2022 • Gonca G., Guzel B., Exergetic and Exergo-Economical Analyses of a Gas-Steam Combined Cycle System, Journal of Non-Equilibrium Thermodynamics
Volume / Page:: 10.1515/jnet-2022-0042
- 2021 • Korkmaz F.C., Yiğit K., Güzel B., Experimental study on sloshing reduction effects of baffles Perde tipi engellerin çalkantı yüklerini azaltma etkileri üzerine deneysel bir çalışma, El-Cezeri Journal of Science and Engineering
Volume / Page: 10.31202/ecjse.899736

MECHATRONICS ENGINEERING



Asst. Prof. Dr. Cansu NOBERİ

Background

Asst. Prof. Dr. Cansu NOBERİ received her bachelor's degree in 2010, her master's degree in 2012, and her Ph.D from Yıldız Technical University in 2017.

At the undergraduate level; She lectured Materials Science, Production Methods, Product Development Methodology, Introduction to Nanotechnology, Materials, at the master's Level; She lectured Advanced Technological Materials and Advanced Production Techniques.

Contact

 cnoberi@gelisim.edu.tr

Research Area

Material Science

Nanotechnology

Nanomaterials

Traditional Ceramics

Advanced Technological Materials

Synthesis and Characterization

Profession

Material Science

Nanotechnology

Projects

**Efes Hellenistik Dönemi Savunma Yapılarına Analitik Yaklaşım
Analytical Approach to Ephesus Hellenistic Defense Structures
(2023 - Continues)**

Executive: Noberi C.

Supporting Organization: İGÜ - BAP

**Transonik Roketlerin Detaylı Analiz ve Üretimi
Detailed Analysis and Production of Transonic Rockets
(2022 - Completed)**

Executive: Noberi C.

Supporting Organization: İGÜ - BAP

Publications

2020 • Noberi Cansu, Sentürk Kenan, Halat Oguzhan Murat, Kaya Atakan, Book Review Thermal Energy Storage Technologies for Sustainability: Systems Design, Assessment and Applications Authors: S. KALAISELVAM, R. PARAMESHWARAN, Journal of Sustainable Economics and Management Studies (ECOMAN)

Volume / Page: Volume 1, Issue 1,87-89

MECHATRONICS ENGINEERING



Asst. Prof. Dr. Kenan ŞENTÜRK

Background

Asst. Prof. Dr. Kenan ŞENTÜRK received his bachelor's degree from Marmara University in 1999, his master's degree from Istanbul Technical University in 2003 and his Ph.D from Yeditepe University in 2011.

At the undergraduate level; He lectured Physics I(TR), Nuclear Energy Systems, Measurement and Instrumentation, Renewable Energy for a Sustainable World, Physics II(TR), Physics III(TR), Physics, Physics I, Physics II, Research Methods and Techniques, at the master's level, He lectured Renewable Energy Technologies, Solid State Technologies

Contact

✉ ksenturk@gelisim.edu.tr

Research Area

Plasma Technique

Plasma Agriculture

Nanotechnology

Energy

Material science

Nuclear Technology

Profession

Physics

Projects

Görme Engelli Bireyler için Yapay Zeka ve Siber Güvenlik Özelliklerine Sahip Akıllı Gözlük
Smart Glasses with Artificial Intelligence and Cyber Security Features for Visually Impaired Individuals
(2023 - Continues)

Advisor: Şentürk K.

Supporting Organization: TÜBİTAK - 2209A

Plazma Teknolojisi ile Çevre Dostu Sıvı Azot Gübresi Üretimi
Environmentally Friendly Liquid Nitrogen Fertilizer Production with Plasma Technology
(2023 - Continues)

Advisor: Şentürk K.

Supporting Organization: TÜBİTAK - BİGG

Publications

- 2022 • Akkaya Ergun Eray, Özer Muhammet, Sentürk Kenan, Öztürk Volkan, Alkan Ümit, Design and control of a mobile steward platform with four independent wheels, Mugla Journal of Science and Technology
<https://doi.org/10.22531/muglajsci.982013>
- 2021 • Yalçın Bestenur, Özçelik Sezen, İçin Kürsat, Sentürk Kenan, Özçelik Bekir, Arda Lütfi, Structural, optical, magnetic, photocatalytic activity and related biological effects of CoFe₂O₄ ferrite nanoparticles, Journal of Materials Science
<https://doi.org/10.21203/rs.3.rs-164750/v1>
- 2020 • Yalçın Bestenur, Akcan Dogan, Yalçın Ibrahim Ertugrul, Alphan Mehmet Can, Sentürk Kenan, Özyığıt Ibrahim Ilker, Arda Lütfi, Effect of Mg doping on morphology, photocatalytic activity and related biological properties of Zn_{1-x}Mg_xO nanoparticles, Turkish Journal of Chemistry
·DOI: 10.3906/kim-2004-9
- 2020 • Noberi Cansu, Sentürk Kenan, Halat Oguzhan Murat, Kaya Atakan, Book Review Thermal Energy Storage Technologies for Sustainability: Systems Design, Assessment and Applications Authors: S. KALAISELVAM, R. PARAMESHWARAN, Journal of Sustainable Economics and Management Studies (ECOMAN) Cilt/Sayfa: Volume 1, Issue 1, 87-89

MECHATRONICS ENGINEERING



Asst. Prof. Dr. Safar POURABBAS

Background

Asst. Prof. Dr. Safar POURABBAS received his bachelor's degree from Tabriz University in 2000, his master's degree from Sharif Technical University in 2002, and his Ph.D from Nanyang Technical University in 2012.

At the undergraduate level; He lectured Industrial Control, Automatic Control, System Dynamics, Computer Aided Design, Computer Aided Technical Drawing, Computer Aided Orthotic Prosthesis Design, Hydraulic and Pneumatic Systems, Machine Elements, at the master's degree; he lectured Kinematics and Dynamics of Mechanical Systems.

Contact

 spourabbas@gelisim.edu.tr

Research Area

3D Printer Design and Development

Automation & PLC

CNC Machine Design and Development

Profession

Mechatronics and Design

Projects

Birkaç Malzemeli 3B Yazıcı Platformu Tasarımı ve Geliştirilmesi
Design and Development of a Multi-Material 3D Printer Platform
(2023 - Continues)

Executive: Pourabbas S.

Supporting Organization: İGÜ - BAP

MECHATRONICS ENGINEERING



Asst. Prof. Dr. Haydar İzzettin Kepekçi

Background

Asst. Prof. Dr. Haydar İzzettin KEPEKÇİ received his bachelor's degree from Osmangazi University in 2011, his master's degree from Uludag University in 2014 and his Ph.D from Istanbul University in 2021.

At the undergraduate level; he lectured Thermodynamics and Heat Transfer, at the graduate level; he lectured Renewable Energy Systems

Contact

✉ hikepekci@gelisim.edu.tr

Research Area

Thermodynamics

Energy

Heat transfer

Profession

Computational Fluid Dynamics

Renewable Energy Systems

Publications

- 2022
- Haydar Kepekci, Comparative Numerical Aerodynamics Performance Analysis of NACA0015 and NACA4415 Airfoils, International World Energy Conference Proceedings Book
DOI: 10.52088/ijesty.v2i1.236
 - Haydar Kepekci, Renewable Energy Potential of Istanbul, ENGINEERING AND ARCHITECTURE SCIENCES Theory, Current Researches and New Trends 4
ISBN: 978-9940-46-094-5pp 27-43
 - Haydar Kepekci, Numerical Analysis Of Induction Heaters For Different Fluids And Number Of Pipes, Advances in Engineering Sciences
ISBN: 978-625-8109-26-9, pp 113-129
 - Haydar Kepekci, Erman Aslan, CFD Analysis of Convection Heat Transfer in Corrugated Channels for Different Inclination Angles, Sakarya University Journal of Science
<https://doi.org/10.16984/saufenbilder.1069682>
 - Haydar İrey, Haydar Kepekci, Next Stop Zero Carbon: Focused on Electricity Generation, International Research Journal of Innovations in Engineering and Technology (IRJIET)
DOI: 10.47001/IRJIET/2022.608001
 - Haydar Kepekci, The Effect Of Baffle Plate Use in Shell and Tube Heat Exchangers, International Research In Engineering Sciences I
pp. 75-91
 - Haydar Kepekci, Afetlerde Hesaplamalı Akışkanlar Dinamiği Yazılımı Kullanımı : Slosh Modelin Çalışma Prensipleri, Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar 7
1.baskı pp 67-75
 - Haydar Kepekci, Ahmet Yurtseven, Levent Bardak, CFD Analysis of Single Module Design for Floating Solar Power Plants, 14th International Conference On Engineering & Natural Sciences Proceedings Book
Cilt.14, sa.1, ss.619-627
 - Haydar Kepekci, Investigation of The Effect of the Use of Top Deflectors on Aerodynamic Performance in Vehicles with CFD Analysis, International Conference on Engineering Technologies (ICENTE'22) Proceeding Book
E-ISBN: 978-605-72066-2-6, pp. 292-296



MECHATRONICS ENGINEERING




Res. Asst.

Tunay ACIMAN

Background

Res. Asst. Tunay ACIMAN received his bachelor's degree in 2016 and master's degrees from Tokat Gaziosmanpaşa University in 2019. He started his Ph.D at Yıldız Technical University in 2020. He has been working as a research assistant at Istanbul Gelişim University since 2018.

Contact

 taciman@gelisim.edu.tr

Research Area

Mechatronic Systems

Control Systems

Projects

Transonik Roketlerin Detaylı Analiz ve Üretimi
Detailed Analysis and Production of Transonic Rockets
(2022 - Completed)

Researcher: Acıman T.

Supporting Organization: İGÜ - BAP

MEKATRONİK MÜHENDİSLİĞİ




Res. Asst.
Ufuk ATEŞOĞLU

Background

Res. Asst. Ufuk ATEŞOĞLU received his bachelor's degree from Nişantaşı University in 2020. He continues his master's degree at Istanbul Gelişim University. He started to work as a Research Assistant at Istanbul Gelişim University in March 2023.

Contact

 uatesoglu@gelisim.edu.tr

Research Area

Biomedical System Design

Computer Aided Design



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EVENTS



**05.01.2023 dated technical trip to
“TAKIMSAŞ Cutting Tool and
Machine Industry and Trade Inc.”**

**01.12.2022 dated technical trip to “MES Metal
Extrusion Industry and Trade Inc.”**





16.03.2022 dated “Mechatronics Engineering CNC Machines Event”

Kuzgun and Pegasus teams participating in the 2022 Gelişim Technology Team Teknofest competition in the medium altitude rocket category





**Visit of the Mechatronics
Engineering Association to our
Department dated 12.10.2022**

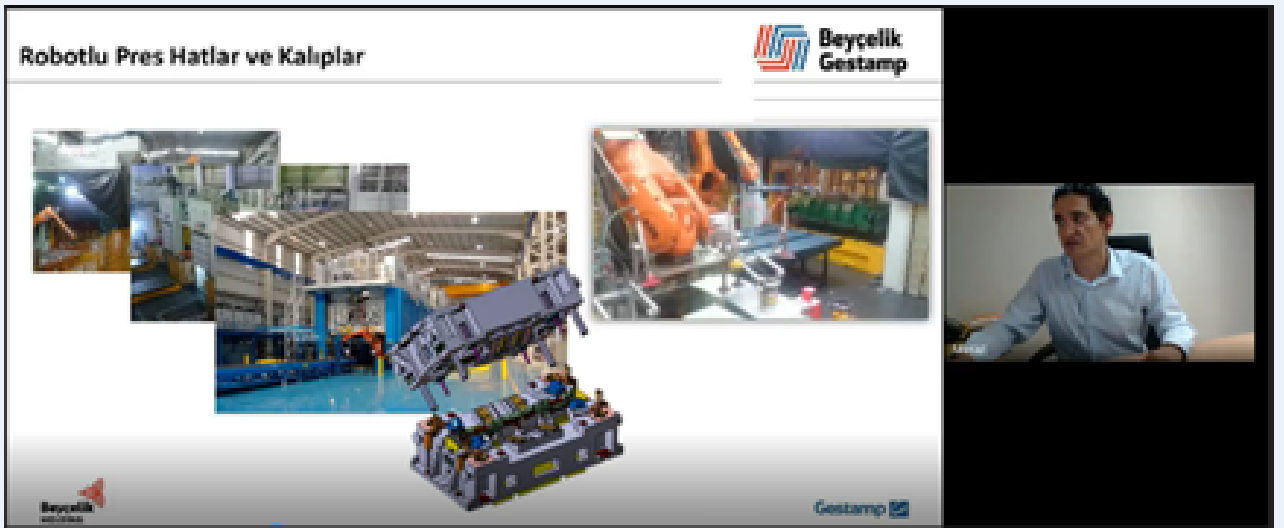
**“Excel Initial Training with Armağan AKBAY” dated
29.12.2021**





“Project Preparation and Teknofest Process” Interview dated 22.12.2021

“Sheet Forming, Assembly and Quality Processes Seminar” dated 1.07.2021



“Mechatronics Engineering Career Seminar” dated 12.01.2021



Kariyer Hedefleri

2016-2020:

İş İlanı Sayısı:128
Staja Yerleştirilen Kişi Sayısı:115
“kariyer.mekatronik.org.tr”

2020-2021 Kariyer Hedefleri:

Cv Havuzu - İş Bulma Sürecinin Daha Hızlı ve Doğru Gerçekleşmesi Hedefleniyor.

Stajyer Mühendislik Programı -
Online Staj Programı
Proje Bazlı Staj Programı
Türkiye’de Çeşitli Üniversitelerde Okuyan Mühendislerin Büyük Şehirlerdeki Firmalarda Uzaktan Staj Yapabilmesi Hedefleniyor.

The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "Kariyer Hedefleri" (Career Goals). The slide is divided into two sections: "2016-2020:" and "2020-2021 Kariyer Hedefleri:". The "2016-2020:" section lists "İş İlanı Sayısı:128" (Number of Job Advertisements: 128) and "Staja Yerleştirilen Kişi Sayısı:115" (Number of People Placed in Internships: 115), with a link to "kariyer.mekatronik.org.tr". The "2020-2021 Kariyer Hedefleri:" section lists "Cv Havuzu - İş Bulma Sürecinin Daha Hızlı ve Doğru Gerçekleşmesi Hedefleniyor." (CV Pool - Faster and More Correct Realization of the Job Finding Process is Targeted). Below this, it lists "Stajyer Mühendislik Programı -" (Internship Engineering Program -) with sub-points: "Online Staj Programı" (Online Internship Program), "Proje Bazlı Staj Programı" (Project-based Internship Program), and "Türkiye’de Çeşitli Üniversitelerde Okuyan Mühendislerin Büyük Şehirlerdeki Firmalarda Uzaktan Staj Yapabilmesi Hedefleniyor." (Targeting engineers studying in various universities in Turkey to be able to do remote internships in large cities). The right side of the screenshot shows a grid of participant video feeds, including the presenter Ömer Yaşın Adıgüzel and several other attendees.



ISTANBUL
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GRADUATES



GRADUATES



Selin YEŞİL
Business Development Specialist
Graduated in 2019

My university has a modern campus that offers the latest technologies and equipment to Mechatronics engineering students. In addition, the academic staff consists of experienced and passionate teachers who are experts in their fields. They always stand by their students and do their best to provide them with practical skills as well as theoretical knowledge. The Mechatronics engineering program allows students to gain a comprehensive understanding of the integration of mechanical, electrical and computer systems. Through this program, students can specialize in areas such as robotics, automation and control systems that play an important role in industry. Also, another advantage of the mechatronics engineering program is that students are equipped with advanced research techniques and innovative ideas. I, both as a mechatronics engineer and as a master's degree mechatronics engineering student, believe that this program will offer many opportunities to my career and I experience this in my business life. During my time at my school, many conferences, seminars and events were organized about mechatronics engineering. In this way, students like me had the opportunity to learn about the latest developments in the field.

After completing my education as a mechatronics engineer, I first started working as a project engineer. However, I continued to look for new opportunities and improve myself in my business life. Finally, I decided to work as a business development specialist and I am very happy with this decision. Now, I develop business strategies by approaching projects from a larger perspective and have a broad network of companies working with companies in different industries. This change in my job motivates me and makes me feel more productive. My mechatronics engineering background helps me approach the problems I'm facing in my new position from a different perspective.

In conclusion, I think the field of mechatronics engineering is an exciting and promising discipline. My university and its academic staff have done their best to help me progress in this field. I strongly recommend it to anyone who wants to choose this program.

GRADUATES

Abdullah Can AL **Research Assistant** **Graduated in 2020**



The reason why I chose Istanbul Gelisim University was that the infrastructure and workshops required for engineering were useful and state-of-the-art. After studying here, I realized how right my decision was. Because I frequently used these workshops and laboratories in the projects and application courses I was involved in. Another reason why I chose IGU was the investments it made in the aviation field. I have been interested in aviation since I was little. In Gelisim University, there were aviation departments not only in the engineering faculty but also in other faculties and vocational schools. In this way, I learned not only the engineering part, but also the mechanical, avionics, technician parts and operation managements of aviation from my friends who studied those departments. In this way, I participated in the Teknofest competition, which I participated in the rocket category for the first time in 2019, with a total of 9 rockets in the following years. I participated in the UAV category 4 times with my friends at Gelisim University, whom I met in the Unmanned Aerial Vehicle category.

After graduating from mechatronics engineering, I started my master's degree in Aeronautical Engineering at Istanbul Gelisim University, Institute of Science, as I wanted to combine the mechanics, electrical-electronics and software knowledge I learned here with aviation and I am still continuing. I used to dream of working in the industry, but as I took part in projects and started researching things for projects and courses, I realized that the academic side interested me more. I would always have to do research and I would not stop producing projects, this was exactly what I dreamed of. I would also be able to share my experiences and knowledge with my young friends. In the light of these thoughts, I started to work as a research assistant in 2021, one year after my graduation. On the one hand, I can do research, review and write articles, and on the other hand, I can continue with the projects. I am currently in my thesis period in my master's degree and it is a great benefit for me to use the laboratories and workshops I mentioned at the beginning for my thesis on UAVs at Istanbul Gelisim University.

I am grateful to all my professors who made me love the academy and taught and instilled in me that it is not possible to achieve success without effort, research and self-development, and all my colleagues with whom I have established a good friendship environment in projects.

Kendimizi geliřtirmeden, bir řeyler için çabalamadan ve hayatımızın her alanında bilgiye olan inancımızı kaybetmeden herkesin sevdiđi iři yapması dileklerimizle.

GRADUATES

Taylan KARASOY
Field Engineer
Graduated 2022



While I was undecided between the engineering branches at the university choice stage, where I will finish high school and take the first step for my profession, I preferred the IGU Mechatronics Engineering department as a result of the mentorship I received after meeting with the academicians of all departments. The main reasons for me to include IGU Mechatronics Engineering in my preference list were the support of engineering students who are still in the education stage to implement their big projects, the quality of the social elective courses and the competent academic staff in their field. During my student years, I became a finalist in the TEKNOFEST Rocket competition with my team, which included members from other departments in our faculty, and gained experience in teamwork and project management. My R&D studies, which started with the guidance of my professors when I was a first year student, continued throughout my university life. While I was dealing with projects and improving my technical infrastructure, I had the chance to take Japanese education, which is a social elective course, by taking advantage of the foreign language education offered by my school. Together with my friends, we established the Mechatronics Engineering Club and carried out various activities. Due to the ease of communication provided by my professors in both the department and the faculty, I received mentorship where necessary in my projects. After my graduation, I started to work as a field engineer in the field of elevator control at the Chamber of Mechanical Engineers.

GRADUATES

Emirhan KARAKURT

Automation System Software and R & D Department - Software Engineer Graduated 2020

After graduating from the Mechatronics Engineering Department of Istanbul Gelişim University, I further developed the values that my university gave me. The atmosphere of my university, the attitude of the academician and the support of the student community motivated me at Gelişim University as well, enabling me to find the best opportunities to develop and learn more. Istanbul Gelişim University not only provides academic knowledge to its students, but also teaches life lessons. Various social activities and volunteering activities are also organized for students to realize their social responsibilities and develop their leadership skills. I learned from my old school that these values are important to me and I continued to adopt these values at Gelişim University. Mechatronics engineering department of Istanbul Gelişim University has been designed in accordance with the requirements of industry 4.0, one of the most important technological developments of our age. In this section, we prepare to be successful in business life by gaining not only theoretical knowledge but also practical skills. Thanks to the wide business network of the university, internship and job opportunities in business, industry and public institutions are also provided, helping its graduates to be successful in their careers. My university left a mark on my life and prepared me for a successful career. The education I received at Gelişim University encouraged me to learn, research and explore, and enabled me to be successful in my business life. My university remains one of the most important experiences of my life and I will always remember this school with pride. As a result, my university Gelişim University, is a turning point for me and the education I received here prepared me to be successful in every aspect of my life. Honoring my university is also important in respecting my professors and fellow students who have given me these opportunities.



**FACULTY OF ENGINEERING AND
ARCHITECTURE**

ARCHITECTURE

ARCHITECTURE

ASSOC. PROF. DR. İLKE CİRİTÇİ Deputy Head of Department



ISTANBUL GELİŞİM UNIVERSITY DEPARTMENT OF ARCHITECTURE has a wide staff with professional knowledge and skills, 2 Professors, 2 Associate Professors, 8 Doctoral Faculty Members, 1 Lecturer and 4 Research Assistants. Our Department of Architecture, whose priority is to bring in young architects who know their core values, follow the developments and technologies in the world, can think critically, are open to research and development, creative, and know the social responsibilities and ethical values of the profession, in line with the aim of becoming a World University within the framework of the 'Continuous Development' vision of the Institution. continues to improve itself.

Today, Architecture, which is among the most crowded departments with 270 students in the Turkish Architecture Program in the Undergraduate Department and 571 students from different countries of the world in the English Architecture Program, allows students to get to know different cultures, to produce together and to work together by using the advantages of this dynamism. Among the educational principles of our department, it is important to train students to be leaders of multidisciplinary teams.

Interdisciplinary scientific studies are carried out in our Engineering departments and ICU Application and Research Centers and Institution-supported Projects are developed. At the same time, with TEKMER, which has just started operating, research and development activities have been increased and a step has been taken to qualified scientific studies. In addition to education, projects are carried out in cooperation with various institutions with the aim of creating awareness in the academy and the public in the sector with the focus of Research and Development.

I believe that we will achieve successful works with the motivation of being a department that improves itself every year with our newly joined students and our strengthening staff, and I wish our students success for the new term.

ASSOC. PROF. DR. İLKE CİRİTÇİ
Deputy Head of Department

ARCHITECTURE

GENERAL INFORMATION



PURPOSE OF THE DEPARTMENT

In the Department of Architecture, which is affiliated to the Faculty of Engineering and Architecture, educational programs are implemented in accordance with the requirements of the current architectural environment. In the Department of Architecture of Istanbul Gelişim University, which has an educational approach that supports academic studies in the field of architecture; The developments in technology and architecture are closely followed and these changes are integrated into the entire education system. The Department of Architecture of Istanbul Gelişim University, which serves with an understanding of education in national and international standards, aims to train the leading architectural designers and innovative architectural researchers.

CAREER OPPORTUNITIES

Our graduates from Istanbul Gelişim University, Department of Architecture, graduate with international education standards, so they can establish their own offices as freelance architects, or they have the opportunity to find a job as an architect in private or public institutions. Architecture graduates, who have a wide range of master's degrees, have the opportunity to work in all areas dominated by the construction industry and to be at the forefront of working life due to their leading status in the construction process.

UNDERGRADUATE TRANSFER / VERTICAL TRANSFER

Our students can transfer to other departments within the Faculty of Engineering and Architecture. It is possible to transfer vertically from Construction Technologies, Architectural Restoration, Building Painting, Construction associate degree departments to IGU Architecture Department.

UNDERGRADUATE PROGRAM

The curriculum can be accessed from the link below;
<https://mmf.gelisim.edu.tr/tr/akademik-bolum-mimarlik-mufredat>

ARCHITECTURE

PROGRAM EDUCATION GOALS



In the Department of Architecture of Istanbul Gelisim University, where education is given at international standards, training on design, space equipment, construction process planning, building knowledge, historical awareness and knowledge, ethical values, design - accessibility for everyone, cultural heritage and computer aided design are provided. Istanbul Gelisim University Department of Architecture, which plays an active role in raising individuals who understand the relations between the built environment and people, who can evaluate the environment, and who have an awareness of architectural heritage, organizes congresses, seminars, symposiums, exhibitions and workshops in addition to the education plan. With these activities, many opportunities are provided at national and international standards for students to develop themselves both professionally, socially and culturally.

ARCHITECTURE

MISSION

Its priority in the field of architecture is to bring in young architects who know their core values, follow the developments and technologies in the world, can think critically, are open to research and development, creative, and know the social responsibilities and ethical values brought by the profession.



VISION

To be one of the leading departments in the fields of Architecture and related disciplines with its contributions to science and technology, competitive at national and international level.

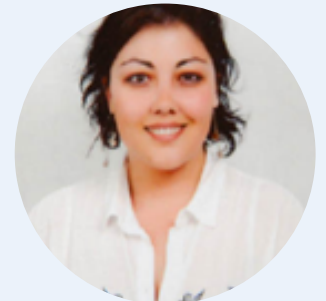
ACADEMIC STAFF



PROF. DR. MEHMET SENER KÜÇÜKDOĞU
Bachelor: ISTANBUL TECHNICAL
UNIVERSITY
Master: ISTANBUL TECHNICAL
UNIVERSITY
Ph.D.: ISTANBUL TECHNICAL UNIVERSITY



PROF. DR. MEHMET HARUN BATIRBAYGIL
License: IDMMMA (YILDIZ TECHNICAL UNIVERSITY)
Master: IDMMMA (YILDIZ TECHNICAL UNIVERSITY)
Ph.D.: IDMMMA (YILDIZ TECHNICAL UNIVERSITY)



ASSOC. PROF. DR. İLKE ÇİRİTCİ
Undergraduate: YILDIZ TECHNICAL
UNIVERSITY
Master: YILDIZ TECHNICAL UNIVERSITY
Ph.D.: MIMAR SINAN FINE ARTS UNIVERSITY



ASSOC. PROF. DR. TURKAN UZUN
Undergraduate: YILDIZ TECHNICAL UNIVERSITY
Master: ISTANBUL TECHNICAL UNIVERSITY
Ph.D.: YILDIZ TECHNICAL UNIVERSITY



ASSIST. PROF. DR. MERYEM MUZEYYEN
HAZELNUT
Bachelor: ISTANBUL TECHNICAL UNIVERSITY
Master: ISTANBUL TECHNICAL UNIVERSITY
Ph.D.: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. DR. ERDAL YILDIZ
Bachelor's Degree: BLACK SEA TECHNICAL
UNIVERSITY
M.Sc.: KARADENİZ TECHNICAL UNIVERSITY
Ph.D.: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. DR. SEMİH GÖKSEL YILDIRIM
Bachelor: ANADOLU UNIVERSITY
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Ph.D.: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. DR. NEVZAT OMER SAATCIOĞLU
Undergraduate: EASTERN MEDITERRANEAN
UNIVERSITY
Master: ISTANBUL TECHNICAL UNIVERSITY
Ph.D.: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. DR. MURAT ARAOĞLU
Undergraduate: YILDIZ TECHNICAL UNIVERSITY
M.Sc.: HALIC UNIVERSITY
Ph.D.: YILDIZ TECHNICAL UNIVERSITY

ACADEMIC STAFF



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Bachelor: ISTANBUL TECHNICAL UNIVERSITY
Master: ISTANBUL TECHNICAL UNIVERSITY
Ph.D.: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. DR. ERDEM UNGUR
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UNIVERSITY
Master: ISTANBUL TECHNICAL
UNIVERSITY
Ph.D.: ISTANBUL TECHNICAL UNIVERSITY



ASSIST. PROF. DR. O. PAUL AGBOOLA
License: FEDERAL UNIVERSITY OF TECHNOLOGY
(FUTA) AKURE ONDO STATE
Master: FEDERAL UNIVERSITY OF TECHNOLOGY
(FUTA) AKURE ONDO STATE
Ph.D.: UNIVERSITI TECHNOLOGY MALASIA (UTM)
JOHOR BAHRU MALAYSIA



LECTURER BURAK KAAN YILMAZSOY
Bachelor's Degree: ISTANBUL KÜLTÜR
UNIVERSITY
M.Sc.: ISTANBUL CULTURE UNIVERSITY
Ph.D.: AZERBAIJAN UNIVERSITY OF
ARCHITECTURE AND CONSTRUCTION



RES. ASSIST. HAZAL TÜRKMEN YAZGAÇ
Bachelor: ISTANBUL TECHNICAL UNIVERSITY
Master: ISTANBUL TECHNICAL UNIVERSITY
PhD - in progress: MİMAR SİNAN FINE ARTS
UNIVERSITY



RES. ASSIST. HILAL DEVER
Undergraduate: ALTINBAŞ UNIVERSITY
Master: MİMAR SİNAN FINE ARTS UNIVERSITY
PhD - ongoing: ISTANBUL TECHNICAL
UNIVERSITY



RES.ASSIST. BETUL GOK
Bachelor's Degree: MERSIN UNIVERSITY
M.Sc.: ÇUKUROVA UNIVERSITY
PhD - ongoing: YILDIZ TECHNICAL
UNIVERSITY



RES. ASSIST. BURCU KORKUT
Undergraduate: YILDIZ TECHNICAL UNIVERSITY
Master: ISTANBUL TECHNICAL UNIVERSITY

ARCHITECTURE

UNDERGRADUATE PROGRAM

Department of Architecture provides education in Turkish and English. Our curriculum has been prepared in accordance with the ECTS system and consists of 8 semesters. The curriculum includes basic science courses, departmental courses, departmental elective courses and social elective courses, as well as 2 compulsory summer internships. Along with the compulsory courses, the students are provided with basic information about the profession, while the elective courses are aimed at taking the courses related to the interests of the students.

Istanbul Gelisim University Department of Architecture received its first students in the 2011-2012 academic year. It gave its first graduates in the 2014-2015 academic year.

ARCHITECTURE

MASTER'S PROGRAM (THESIS)

Department of Architecture Master's program with Thesis provides education as a Turkish Program. Our curriculum has been prepared in accordance with the ECTS system and consists of 4 semesters. The curriculum includes departmental courses, departmental elective courses and thesis work.

Objective of the Department

The objectives of the Architecture Department Master's Program, which is planned to be opened in order to provide the infrastructure to continue academic education in different disciplines during and after the graduation period of the Architecture Undergraduate Program, which has a comprehensive course content, and to ensure the diversity of study areas, are as follows:

In addition to the experience they will gain in architectural design and related fields with the design workshops to be opened, the students gain competence for certain functions within the professional practice; students' encounters with different design approaches based on the knowledge and equipment of many different fields of expertise; The aim is for students to develop awareness of their own roles in the architectural profession and to take an ethical stance on the problems of architecture.

Career Opportunities

Graduates of the Master of Architecture program will be able to work in public institutions and private sectors as specialized architects, as entrepreneurs and managers, compatible with interdisciplinary teamwork.

Departments for Undergraduate Transfer

Students who have graduated from architecture departments of universities and are enrolled in a master's program have the right to transfer. In addition, graduates of Interior Architecture, Interior Architecture and Environmental Design, Civil Engineering, City and Regional Planning, Landscape Architecture are given the right to transfer if the Scientific Preparation requirements are met.

ARCHITECTURE

MASTER'S PROGRAM (NON-THESIS)

Department of Architecture Non-Thesis Master's Program provides education as a Turkish Program. Our curriculum has been prepared in accordance with the ECTS system and consists of 2 semesters. The curriculum includes departmental courses and departmental elective courses.

Objective of the Department

The objectives of the Architecture Department Master's Program, which is planned to be opened in order to provide the infrastructure to continue academic education in different disciplines during and after the graduation period of the Architecture Undergraduate Program, which has a comprehensive course content, and to ensure the diversity of study areas, are as follows:

In addition to the experience they will gain in architectural design and related fields with the design workshops to be opened, the students gain competence for certain functions within the professional practice; students' encounters with different design approaches based on the knowledge and equipment of many different fields of expertise; The aim is for students to develop awareness of their own roles in the architectural profession and to take an ethical stance on the problems of architecture.

Career Opportunities

Graduates of the Master of Architecture program will be able to work in public institutions and private sectors as specialized architects, as entrepreneurs and managers, compatible with interdisciplinary teamwork.

Departments for Undergraduate Transfer

Students who have graduated from architecture departments of universities and are enrolled in a master's program have the right to transfer. In addition, graduates of Interior Architecture, Interior Architecture and Environmental Design, Civil Engineering, City and Regional Planning, Landscape Architecture are given the right to transfer if the Scientific Preparation requirements are met.



ISTANBUL
GELISIM
UNIVERSITY

research
HIGHLIGHTS



**ACADEMIC CV
AND
SCIENTIFIC STUDIES**




Prof. Dr. Mehmet Şener KÜÇÜKDOĞU

Background

Prof. Dr. Mehmet Şener Küçükdoğu received his bachelor's degree and master's degree from Istanbul Technical University in 1967 and his Ph.D. program from Istanbul Technical University in 1976. He works at Istanbul Gelişim University, Department of Architecture.

Contact

 mskucukdogu@gelisim.edu.tr

Research Areas:

Physical Environmental Inspection

Lighting

Natural Air Conditioning

Building and Construction Technologies in Architecture

Architectural design

Professional Field:

**Associate Professor's
Thesis: Determining the
Most Effective Volume
Depth in Utilizing
Daylight, 1980**

Scientific Profiles:

ORCID: 0000-0001-5403-0318
RESEARCHER ID: AAC-6723-2020
YOKSIS ID: 261071
ARBIS: m.kucukdogu

Memberships

Memberships to Scientific Organizations

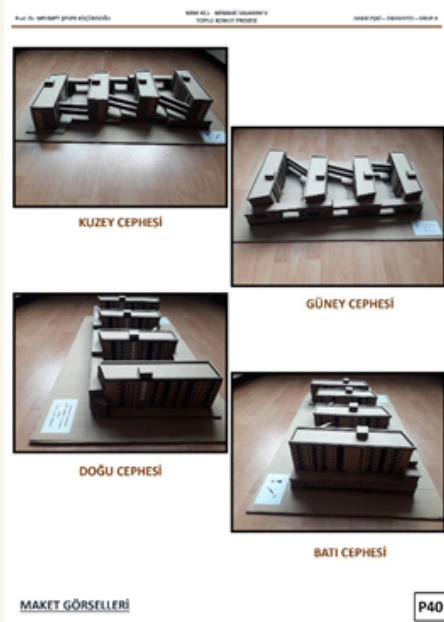
- Turkish National Committee for Illumination - Founding Member, Honorary Chairman of the Committee
- Lux Europa - Council Member and Former President
- Balkan Lighting Society - Founding President
- International Dark-Sky Association - Honorary Member of Turkish Delegation
- Architectural Education Accreditation Association - Founding Member

Memberships to Organizations in the Professional and Social Fields

- Member of TMMOB Chamber of Architects
- Member of the Board of Trustees of the ITU Foundation
- Member of Board of Trustees of Kabataş High School for Boys Education Foundation
- ÇEKÜL Foundation High Advisory Board Member
- Besiktas Gymnastics Club General Assembly Member
- Besiktas Gymnastics Club Board Member
- ITU Alumni Association Founder-Honorary Member
- Founding Member of Kabataş Association
- Founding Member of the Beşiktaş People's Association from Kabataş
- Taşkılla Education and Culture Association Founding Member
- Honorary Member of Lighting Equipment Manufacturers Association (AGID)

ARCHITECTURE

A Selection of Student Projects from the 2022-2023 Fall Semester Architectural Design V Course Project Subject: Mass Housing Design



Student: Hakkı Eşki

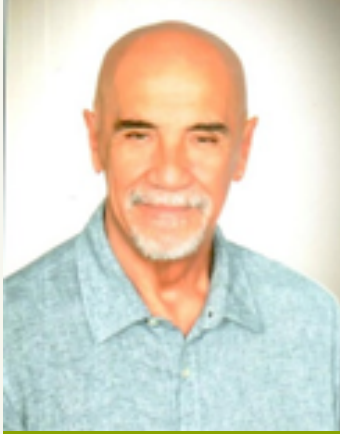
ARCHITECTURE

A Selection of Student Projects from the 2022-2023 Fall Semester Architectural Design V Course Project Subject: Mass Housing Design



Student: Furkan Arıkan

ARCHITECTURE




Prof. DR. Mehmet Harun BATIRBAYGİL

Background

Prof. Dr. Mehmet Harun Batırbaygil received his bachelor's degree from Yıldız Technical University in 1968, his master's degree from Yıldız Technical University in 1969 and his Ph.D. program from Yıldız Technical University in 1978. He works at Istanbul Gelişim University Department of Architecture (English).

Contact

 mhbatirbaygil@gelisim.edu.tr

Research Areas:

Project management

Architectural design

Professional Field:

**Associate Professorship:
Building Information- Design**

Administrative:

**2019-2020: Department of
Architecture- TR-ENG- Department
Head**

Publications

Before Istanbul Gelisim University, I worked as a consultant for 25 postgraduate theses, seven of which were doctoral. In my academic career, I received 6 awards including 1 honorary mention and 1 second place, 1 third place and 3 honorable mentions. I contributed to the field of architecture with 22 articles, 16 papers, 5 books and National/International projects and research. After I started working at Istanbul Gelişim University, Department of Architecture, my studies are as follows;

- Storytelling as A Learning Tool in Architecture Design Studio, Danah Munir Tuffaha, Mehmet Harun Batırbaygil; Journal of Engineering Sciences and Information Technology Volume (4), Issue (2) : 30 June 2020, P: 70 - 89

ARCHITECTURE



Assoc. Prof. İlke CİRİTÇİ

Background

I have been working at Istanbul Gelişim University, Department of Architecture since January 2018. During the time I joined the Istanbul Gelişim University, I made scientific studies and publications in various fields. The publications I have made in the last 5 years are also related to the courses I have been teaching in general; in the areas of historic environment and conservation, restoration, accessibility and building information.

Contact

 iciritci@gelisim.edu.tr

Research Areas:

**Architecture, Conservation
Renewal and Restoration**

Architectural Design

City and Protection

Cultural Heritage

Professional Field:

**Associate Professorship:
UAK- Architecture-Planning and
Design Base Field**

Administrative:

**Head of Department (March 2023 -
Present)**

Project Activities

Ongoing Projects

- Supporting Institutions : AFAD (Emergency and Disaster Management Presidency) – UPAD (National Earthquake Research Program) Project number: UDAP-G-21-63. Situation in the Project : Researcher. Project Title : Creating a Harm Reduction, Safe Evacuation Model and Training Module For The Grand Bazaar In Disaster And Emergency Situations
- Supporting Institutions: Culture and Tourism Ministry. Situation in the Project: Architect. Name of The Project: Çobankale Archaeological Excavation

Projects Proposed In The Spring Semester of 2022-2023

- TÜBİTAK 1002 : An Architectural Model Suggestion on the Sustainable Development of the Rural Perimeter of the Metropolitan City in the Framework of Cultural Landscape Values: The Case of Catalca. Situation in the Project : Coordinator. Estimated Application : April 2023
- TÜBİTAK 1002 : Research on Post-disaster Housing. Situation in the Project : Researcher. Estimated Application : April 2023

Positions at IGU Application and Research Centers

- ICUAM – Deputy Director İstanbul Researchs Application and Research Center
- CSYBUAM – Advisory Board Member. Environment Urbanism and Earth Sciences Application and Research Center

ARCHITECTURE

Assoc. Prof. İlke CİRİTÇİ

Publications

Articles

- A Critical Evaluation of the Design of Infilled Activity Areas: New York-HDPK Little Island and Istanbul-Yenikapı. Ciritci İ. ART/icle: Journal of Arts and Design, 2/2, p.158-178, 2022 (Refereed Journal)
- Modeling of Urban Flooding and Waterfall Effect On Stepped Streets in Istanbul, Turkey. Halat O. M., Ciritci İ., Yücel G. Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, 22/2, p.148-159, 2021 (Refereed Journal)
- Factors Affecting the Formation of Social Space In The Step Streets Evaluation For Three Examples From Istanbul. Ciritci İ., Yücel G. İdealkent, 2021, vol.12, p.528-555, 2021 (Refereed Journal)
- The Risks Of Nonstructural Building components in The Context Of Earthquake And Pedestrianised Streets In Historic City centers: Istanbul Beyoglu Cezayir Street Case. Ciritci İ., Yücel G. Turkish Online Journal Of Design, Art And Communication (TOJDAC), 11/2, p.541-554, 2021 (Refereed Journal)
- Preservation and Reuse Decisions of 19th Century Housing Buildings in Istanbul: Çemberlitaş-Emin Sinan Mahallesi. Ciritci İ. Journal of Architecture and Life of Kocaeli Üniversitesi, 5/2, p.335-359, 2020 (Refereed Journal)
- Pandemic Reflex of Tourism Facilities: Changing Spatial Experiences Through the Sample of Club Patara. Ciritci İ. AURUM Journal of Engineering and Architecture, 4/ 2, p.169-183, 2020 (Refereed Journal)

Scientific Profiles:

ORCID: 0000-0002-1492-0727

PUBLONS / RESEARCHERID: H-5037-2018

YÖKSİS ID: 28210

LINKEDIN:

<https://www.linkedin.com/in/ilke-ciritci-33b96770/>

RESEARCHGATE :

<https://www.researchgate.net/profile/Ilke-Ciritci>

ACADEMIA :

<https://gelisim.academia.edu/ilkeCiritci>

GOOGLE SCHOLAR :

<https://scholar.google.com/citations?hl=tr&authuser=1&user=Z6QqMbUAAAAJ>

ARCHITECTURE

Assoc. Prof. İlke CİRİTÇİ

Publications

Articles

- Multiple Disaster Risk Assessment and Accessibility for Step Streets: The example of Istanbul. Yücel G., Ciritci İ. MEGARON, 15/2, p.254-269, 2020 (ESCI)
- Accessibility in Architectural Education: Active Learning Process Experience. Ciritci İ. Humanities Sciences, 15/3, p.81-95, 2020 (Refereed Journal)
- International Istanbul Biennial (1987-2019) Exhibition Venues. Yücel G., Ciritci İ. Journal of Art and Design of İnönü Üniversitesi, cilt.10, sa.21, ss.86-100, 2020 (Refereed Journal)
- Historical Buildings at Risk of Flash Floods Istanbul Historical Peninsula: Ahi Celebi Mosque. Ciritci İ., Yücel G. Academic Perspective Procedia, 2/2, p.172-181, 2019 (Refereed Journal)

Book Chapters

- MARKİZ- On the Space and Cultural Articulation of Beyoglu. CİRİTÇİ İ. IAPS-CS 'Culture and Space' Network, Culture and Space Meetings 4, Hülya Turgut, Demet Mutman, Nevşet Gül Çanakçıoğlu, Editor, Publications of Ozyegin University, İstanbul, p.469-483, 2022
- 180 YEARS OF CHANGE OF ISTANBUL FROM MOLTKE'S FOOTPRINT. Ciritci İ. Research and Evaluation in the Field of Architecture, Planning and Design-I, Gülbin Çetinkale Demirkan, Editor, Publication of Gece Library, Ankara, p.83-113, 2021
- UNDERSTANDING OLIVETTI FACTORY AS A SUSTAINABLE INDUSTRIAL HERITAGE. Ciritci İ. PLANNING AND DESIGN: 'THEORIES, TECHNIQUES, STRATEGIES' SPATIAL PLANNERS & DESIGNERS, Murat Özyavuz, Editor, Peter Lang, Berlin, p.405-423, 2021

Publications

Publications in Refereed Congress / Symposium Proceedings

- Establishment of Mitigation Studies, Evacuation Model and Training Module for Istanbul Grand Bazaar in Disaster and Emergency Situations. TUNÇ B., BARIŞ Ş., YÜCEL G., SARAÇOĞLU İ., ETEMADİ A., CİRİTÇİ İ. 4th International Disaster and Resilience Congress Climate Change and Safe Cities, Eskisehir, Türkiye, 19 October 2022
- The New City Walls of Istanbul: Ataköy. Ciritci İ. 7th International Architecture and Design Congress, İstanbul, Türkiye, 29 April 2022, p.213-221
- Pamukkale Settlement in the Context of Sustainable Cities and Tourism. Yücel G., Ciritci İ. 20th National Tourism Congress, Eskisehir, Türkiye, 16 - 19 October 2019, vol.3, p.829-833

Artistic Activities

Chamber of Architects Urban Dreams Workshops XV - Workshop Management - 18.07.2022-12.08.2022 İstanbul Büyükşehir- Karaköy Building

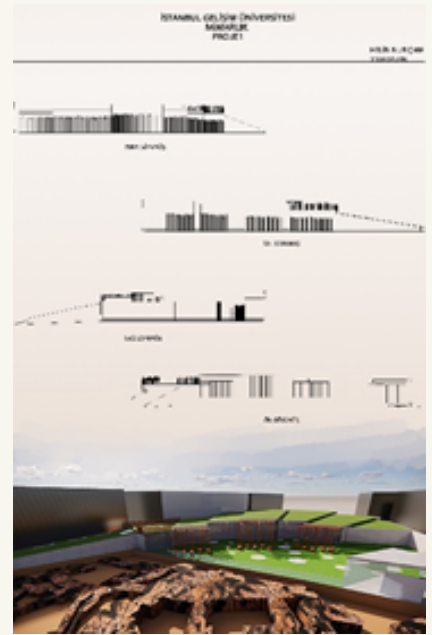
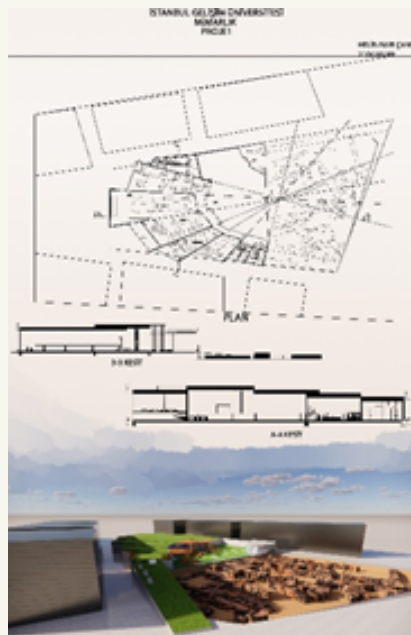
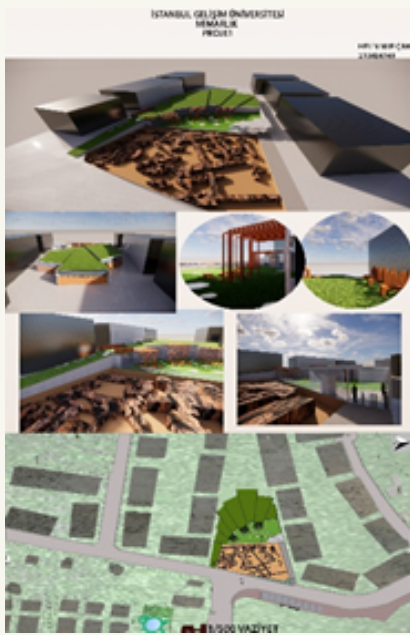
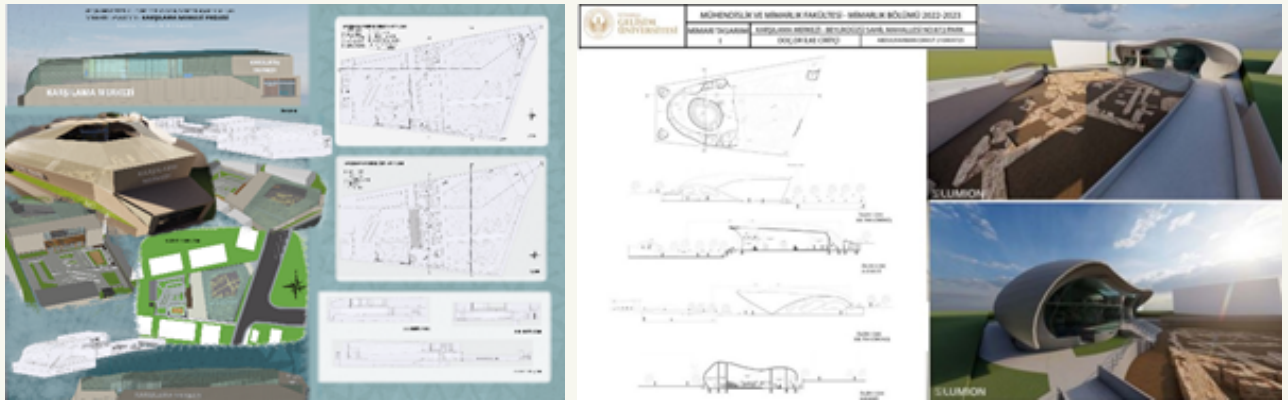
ARCHITECTURE

A Selection of Student Projects from the 2022-2023 Fall Semester Architectural Design I course

2022-2023 Fall term Project subject is the design of the Welcome Center for an Archaeological site. The students were asked to design a building / building ensemble, whose function is a reception center, which relates to the archaeological site in the immediate vicinity, within the land given to them.

Associations

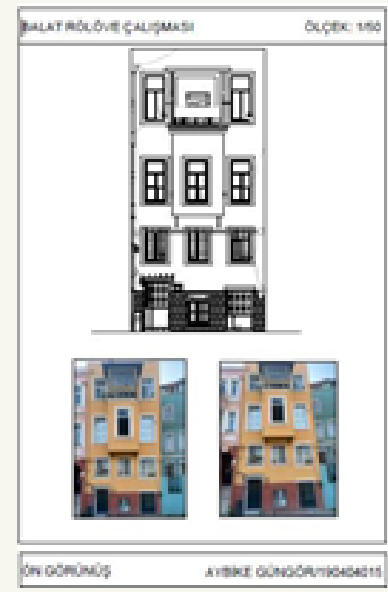
*public space *spaces that can be socialized *participation in the city/active -passive *square *diversity in the city *urban void *fullness/emptiness *Temporary / permanence *Flowability - Contamination *Descent / derivation *Cultural production



Students: Grup B / Tunahan Deler, Abdurrahman Davut, Helin Nur Çam

ARCHITECTURE

A Selection of Student Projects from the 2022-2023 Fall Semester Survey and Restoration course



Students: Aybike Güngör, Aynur Çam, Hümeysra Beyza Özkan, Arife Yılmaz

ARCHITECTURE



Assoc. Prof. Türkan UZUN

Background

Assoc. Prof. Türkan UZUN received his undergraduate degree from Yıldız Technical University, her master degree from Istanbul Technical University and her PhD from Yıldız Technical University. She is a faculty member at Istanbul Gelişim University, Department of Architecture.

Contact

 tuzun@gelisim.edu.tr

Research Areas:

Building Technologies in Ottoman Period and Turkish Architecture

Modernization and Its Theories

Late Ottoman Period Architectural Environment

The Architectural Environment of the Republican Period

Uses of Digital Techniques in Surveying

Laser Technology

Parametric Design - BIM

Project Activities

Ongoing Projects

- Tübitak 3005-Innovative Solutions in Social and Human Sciences Research Projects Support Program, Monitoring the Quality of Housing and Its Neighborhood Perceived by Elderly Individuals in the Covid-19 Process with Instant Measurements, Researcher, Budget: 299.424,00TL, 2020
- Tübitak Investigation of Monumental Architectural Heritage in terms of Comfort Parameters and Energy Efficiency, Seljuk-Ottoman Period, Project manager: Doç. Dr. Ümit T. ARPACIOĞLU, Mimar Sinan Fine Arts University, 2021

Publications

- UzunT. , Soydaş Ç.H., 2022, " BIM as a Learning Tool in Design Studio" , Source Title: International Journal of Digital Innovation in the Built Environment (IJDIBE) volume 11, issue 1, Pages: 1-14, ISSN:2642-2263. <https://www.igi-global.com/gateway/article/306239>. <https://dx.doi.org/10.4018/IJDIBE.306239>. ISSN:2642-2263. DOI:<https://doi.org/10.4018/IJDIBE.306239>
- Soydaş Ç.H.,Uzun T. (2020). "Building Information Modelling In Architectural Education: Contribution of Bim in Design Process", DOI Numbers of TOJDAC October 2020 Volume 10 Issue 4 (10.7456/11004100), TOJDAC, 10(4), 452-467 http://www.tojdac.org/VOLUME10-ISSUE4_files/tojdac_v10i4_OCTOBER.pdf

ARCHITECTURE

Assoc. Prof. Türkan UZUN

Publications

- Uzun,T., & Pilehvarian,K.,N., (2020), "Chapter 1: "New Building Technologies in 19th Century Ottoman Architecture According to Archive Documents", Architecture, Academic Studies in Planning and Design, Night Library,Editor Dr. Beray Manzak, ,pages:1-30,ISBN : 978-625-7938-98-3
<https://www.gecekitapligi.com/Webkontrol/uploads/Fck/mimarlik4.pdf>

Scientific Profiles:

ORCID : 0000-0002-3306-0101

YÖKSİS ID : 115278

LINKEDIN: [linkedin.com/in/turkan-irgin-uzun-2529b014](https://www.linkedin.com/in/turkan-irgin-uzun-2529b014)

ACADEMIA:
<https://gelisim.academia.edu/tuuzun>

GOOGLE SCHOLAR:
<https://scholar.google.com.tr/citations?user=pc95hxcAAAAJ&hl=tr>

Administrative Duties:

2022- Gelişim Univ. Eng. Mim Fac. Head of Department Assist

Istanbul Gelisim University Department of Architecture Internship and Event Committee Member

ARCHITECTURE

A Selection of Student Projects from the Architectural Design III course in the Fall Semester 2022-2023



Students: Hayder Zeyad Qasim Qasim, Mina Ammar Osamah Osamah, Mohammad Waris Wafa

A Selection of Student Projects from the Architectural Design V course in the Fall Semester 2022-2023



Students: Fatima Almayyah, Selen Velet, Hilal Aksoy

ARCHITECTURE




Assist. Prof. Erdal YILDIZ

Background

Assist. Prof. Erdal YILDIZ received his undergraduate degree from Karadeniz Technical University, his master's degree from Karadeniz Technical University and his PhD from Istanbul Technical University. He is a faculty member at Istanbul Gelişim University, Department of Architecture.

Contact

 erdyildiz@gelisim.edu.tr

Research Areas:

Architecture

Building Physics

Physical Environmental Control

Administrative Duties:

**Istanbul Gelisim University
Department of Architecture
Horizontal and Vertical Transfer
Commission Member**

**Istanbul Gelisim University
Department of Architecture Double
Major Degree - Minor Committee
Member**

ARCHITECTURE




Assist. Prof. Meryem Müzeyyen FINDIKGİL

Background

Assist. Prof. Meryem Müzeyyen FINDIKGİL received her bachelor's degree from Istanbul Technical University in 1981, her master's degree from Istanbul Technical University in 1984, and her PhD from Istanbul Technical University in 2002. She is a faculty member at Istanbul Gelişim University, Department of Architecture.

Contact

 mmfindikgil@gelisim.edu.tr

Research Areas:

Architecture

History of Architecture

Istanbul Studies

City and Conservation

Cultural Heritage

**Conservation, Renovation
and Restoration**

Administrative Duties:

**September 2019 – March 2022: Vice
Head of Istanbul Gelişim University
Department of Architecture**

**2019 September – Present: Member
of Exemption Commission of
Istanbul Gelişim University
Department of Architecture**

Project Activities

Projects Proposed in the Spring Semester 2022-2023

- TÜBİTAK 1002 : Research on the Sustainable Development of the Rural Perimeter of the Metropolitan City
Role in the Project: Researcher
Estimated Application : April 2023
- TÜBİTAK 1002 : Post-Disaster Temporary Housing Research
Role in the project: Researcher
Estimated Application : April 2023

Awards

- 2020: Istanbul Metropolitan Municipality, Istanbul is Yours, Design Competition for Halic Shoreline, 1st Prize for District 5. Design leader was Oktan Nalbantoğlu and Dr. Findıkgil was responsible for research on history of the region and reflecting this research on design proposal.
- Istanbul Metropolitan Municipality, Istanbul is Yours, Urban Design Competition for Kadıköy Square, 3rd Honorable Mention. Design leader was Gamze Çelik and Dr. Findıkgil was responsible for research on history of the region and reflecting this research on design proposal.

ARCHITECTURE

Assist. Prof. Meryem Müzeyyen FINDIKGİL

Publications

- AGBOOLA, O. P., YILDIRIM, S. G., FINDIKGİL, M. M., Experts' Opinions on the Strategy of Biophilic Design as a Sustainable Architecture (in preparation)
- ZAKAR, M., FINDIKGİL, M.M. Climatic Problems of Marrakesh (Morocco) Residential Buildings, Archtheo '20/ XIV. International Theory and History of Architecture Conference, November 2020, Istanbul.
- FINDIKGİL, M.M.; 19. Century. A Model in Istanbul Urban Transformation: Rowhouses, Proceeding of 2. Urban Design Symposium, TMMOB Landscape Architecture Association, February 27-28 2020, Istanbul, (in publication).
- BATUR Afife, FINDIKGİL, M.M.; 19. Century. A Model in Istanbul Urban Transformation: Rowhouses, Proceeding of 2. Urban Design Symposium, İstanbul Research Publications, İstanbul, (in publication).

Scientific Profiles:

YÖKSİS ID : 240862

LINKEDIN:

<https://tr.linkedin.com/in/meryem-m%C3%BCzeyyen-f%C4%B1nd%C4%B1kgil-50947b205>

ACADEMIA:

<https://independent.academia.edu/MERYEMM%C3%9CZEYYENFINDIKG%C4%BOL>

GOOGLE SCHOLAR:

<https://scholar.google.com.tr/citations?user=mQxAsoYAAAAJ&hl=tr&oi=ao>

Tasks of IGU:

CSYBUAM - Manager

Environment, Urbanism and Earth Sciences Application and Research Center

ICUAM - Advisor

Istanbul Studies Application and Research Center

Membership

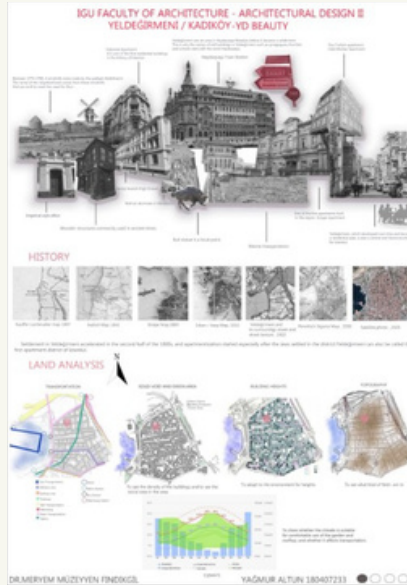
MİMAD, Founding Membership

ARCHITECTURE

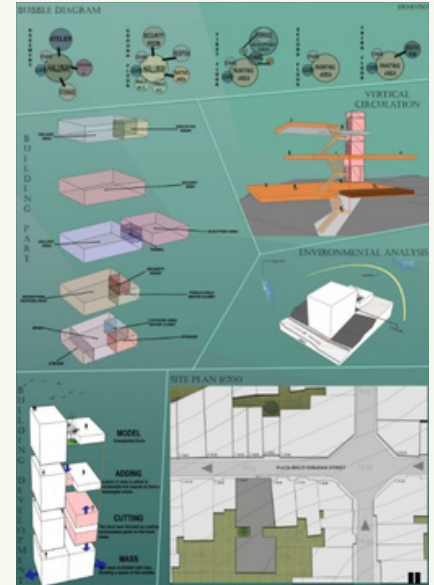
Student Projects Selection from 2019-2023 Architectural Design Courses



Architectural Design I



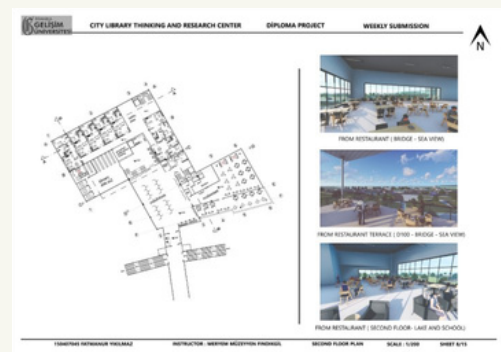
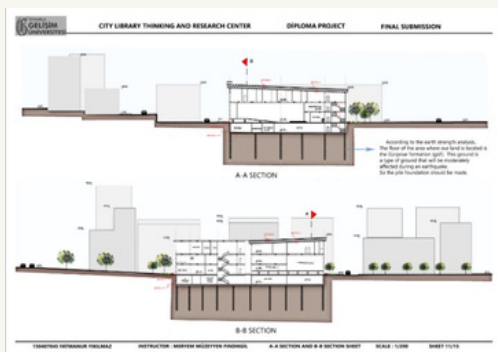
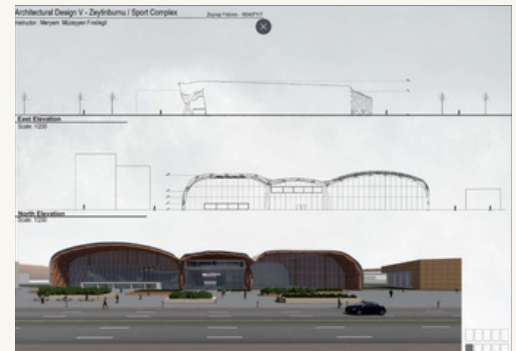
Architectural Design II



Architectural Design IV



Architectural Design V



Diploma Project

ARCHITECTURE




Assist. Prof. Semih Göksel YILDIRIM

Background

I have been working at Istanbul Gelişim University, Department of Architecture since October 2021. I teach various courses at undergraduate and graduate levels depending on my areas of expertise. In addition to the main courses such as architectural design and structural science, specific courses such as daylighting in architecture and building information modeling are among them.

Contact

 sgyildirim@gelisim.edu.tr

Research Areas:

Architectural Design

Daylighting Design

Building Technology

Building Information Modeling

Administrative Duties:

June 2023 - on going . Vice Chair,
Department of Architecture

CSYBUAM - Vice Manager
Environmental Urbanism and Earth
Sciences Application and Research
Center

Scientific Profiles

YOKSIS ID : 134806

RESEARCHGATE:

<https://www.researchgate.net/profile/Semih-Yildirim-2>

GOOGLE SCHOLAR:

<https://scholar.google.com/citations?user=yKtSKVcAAAAJ&hl=tr&oi=ao>

ORCID : 0000-0002-7832-6575

Project Activities

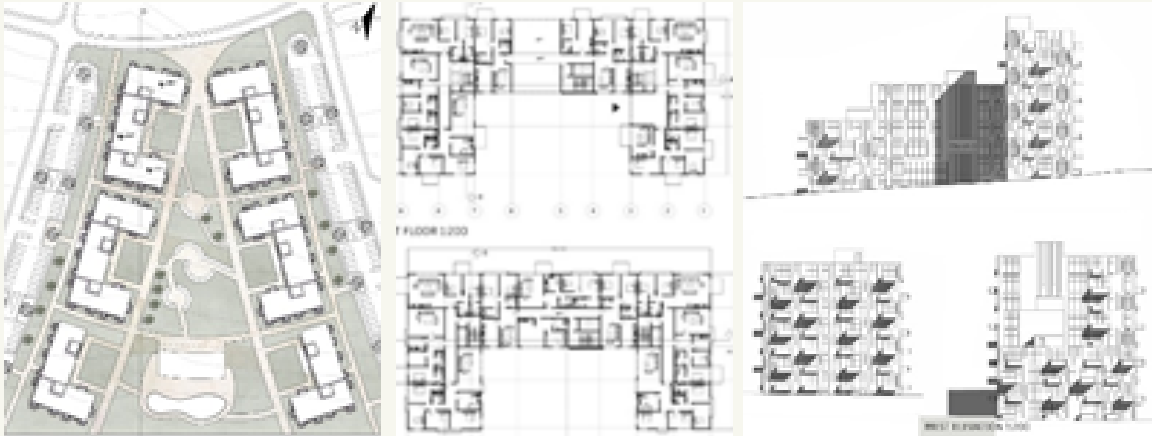
- TÜBİTAK 1002 : High-Density, On-Site Temporary Settlement Structure and Social Networking Model. Title : Principal Investigator (P.I.)
Submission : April 2023 (in preparation)

Publications

- Yildirim, S. G., Baur, S. W., Yarbrough, T. G., Nieters, M. Daylighting analyse tools for advanced study based-on course assignment, International Journal of Engineering Technologies (under peer review)
- Yildirim, S. G., Baur, S. W., Yarbrough, T. G., Nieters, M. Experiential learning in daylighting course based-on current and emerging metrics (in submittal phase)
- Yildirim, S. G., Baur, S. W. Design guide for stick-built and panelized building systems; application of PBL methodology in AEC domain (in submittal phase)
- Yildirim, S. G., Baur, S. W. Redesigning course improvement plan: a case study based-on learning outcomes in engineering education (in submittal phase)
- Agboola, O. P., Yildirim, S. G., Findikgil, M. M., Experts' Opinions on the Strategy of Biophilic Design as a Sustainable Architecture (in preparation)
- Yildirim, S. G., Yıldız, E. Developing curriculum for a course in building technology field, which is compatible with the accreditation of the architectural department (in preparation)

ARCHITECTURE

Examples of Student Work Arc415 Architectural Design 5 - 2022 / Residential Building Complex in Avclar



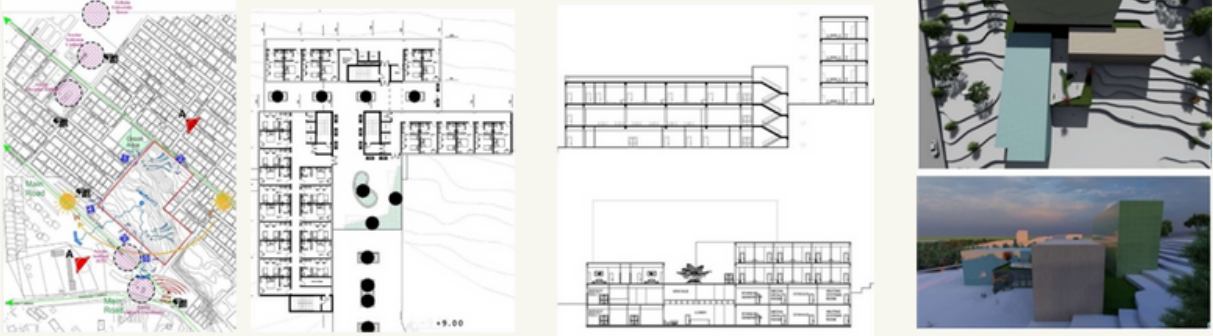
Student: Yara Khalid M Alghamdi



Student: Ranim Touahri

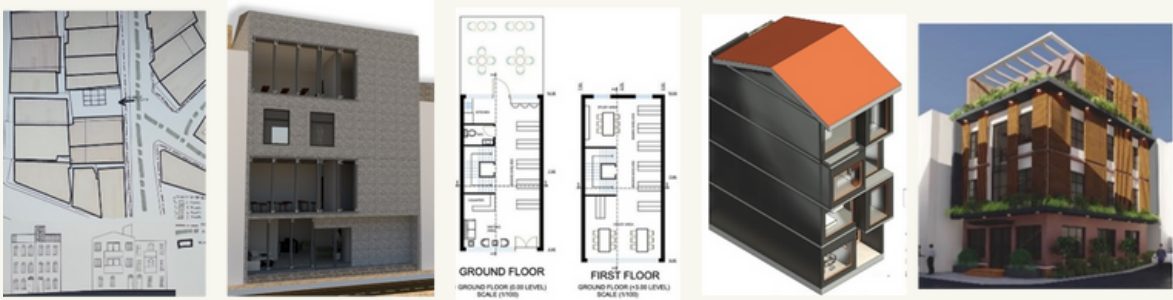
ARCHITECTURE

Examples of Student Work Arc302 Architectural Design 4 - 2022 / Guesthouse in Avcılar



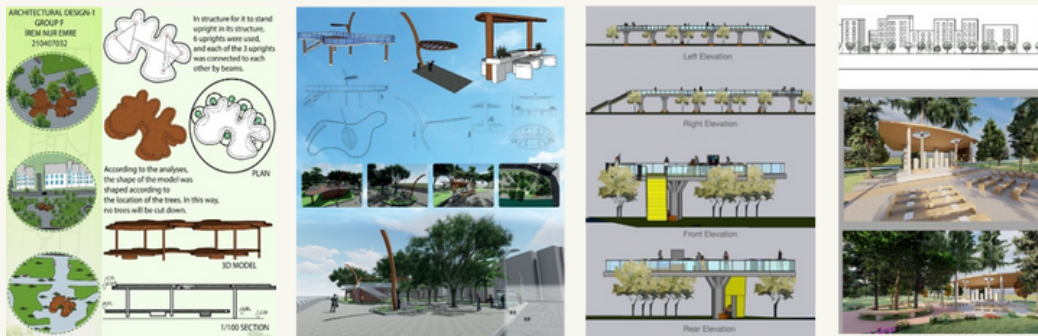
Student: Pinar Öcal

Arc202 Architectural Design 2 - 2022 / Infill Design in Balat



Students: Yasmine Bouadoud, Zeyad Maged Elsharabasy, Munniru Sanusi Mohammed, Monibullah Yaqubi, Mouhoutada Seydou Oumarou

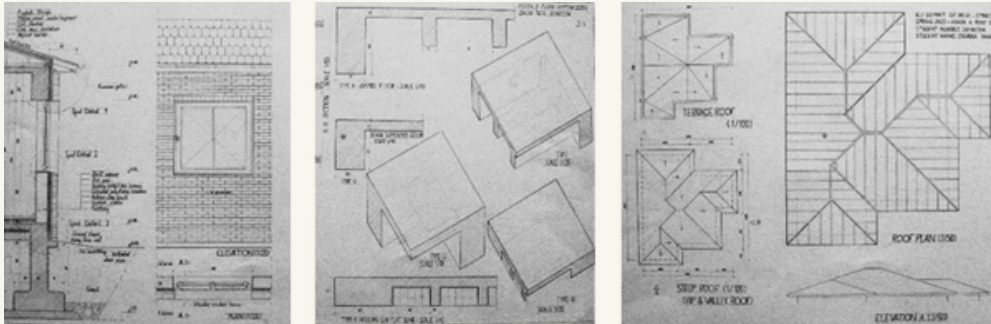
Arc209 Architectural Design 1 - 2021 / Urban Park (Yoğurtçu Parkı) Design in Kadıköy



Student: İrem Nur Emre, Furkan Yıldırım, Talha Türkmen, Serdar Çelik

ARCHITECTURE

Arc116 Structural Science 1 and Arc215 Structural Science 2 – 2022 Spring and Fall Terms



Student: Zahra Taha

Activities with Students (site visits, lab work, etc.)



ARCHITECTURE




Assist. Prof. Nevzat Ömer SAATÇIOĞLU

Background

Assist. Prof. Nevzat Ömer SAATÇIOĞLU received his bachelor's degree from Eastern Mediterranean University in 1997, his master's degree from Istanbul Technical University in 2000, and his PhD from Istanbul Technical University in 2012. He completed her postdoctoral research at the University of Bath in 2018. He works at Istanbul Gelişim University, Department of Architecture.

Contact

 nosaatcioglu@gelisim.edu.tr

Research Areas:

Straw bale design

Green building systems and technologies

Sustainability

Ecological construction systems

Ecological building materials

Simplicity and complexity in architecture

Panel Participation

- Saatcioglu, Ö., İyi Tasarım 7-Yaşamsal, Tomorrows Ecology- Buildings as a part of the life, İzmir- 4-15 October 2022

ARCHITECTURE



Assist. Prof. Erdem ÜNGÜR

Background

Since 2020, I have been working in the English and Turkish programs of the Department of Architecture at Istanbul Gelişim University. Among the undergraduate courses I teach, there are courses such as Architectural Design 3/4, Building Science 1/2 and Selection of Space. In the master's program, I teach the course Space Theories after Modernism. I take part in Erasmus and Internship commissions. The academic activities I carried out after joining the IGU Family are presented below. If you want to learn more about other publications, they can be downloaded from the platforms where I have scientific memberships.

Contact

 eungur@gelisim.edu.tr

Research Areas:

Architecture

Architectural Design

Urban Studies

Memory Studies

Conferences

Contested Histories: creating and critiquing public monuments and memorials in a new age of iconoclasm. Online workshop, 28-29 June 2021.

Book Translations

Modernlik ve Kalıcılık: Şehir, Mimarlık, Tasarım, Vittorio Magnago Lampugnani, trans. Turgut Saner, Erdem Üngür, Yort Kitap, 2021.

Scientific Profiles

ORCID : 0000-0002-8863-2066

PUBLONS / RESEARCHER ID : GSJ-2303-2022

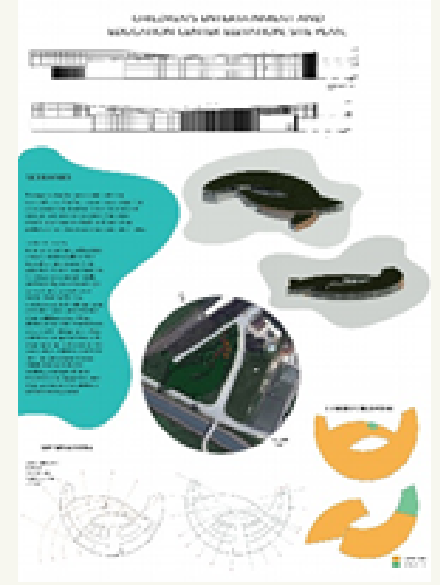
YOKSIS ID : 20489

RESEARCHGATE :
<https://www.researchgate.net/profile/Erdem-Uenguer>

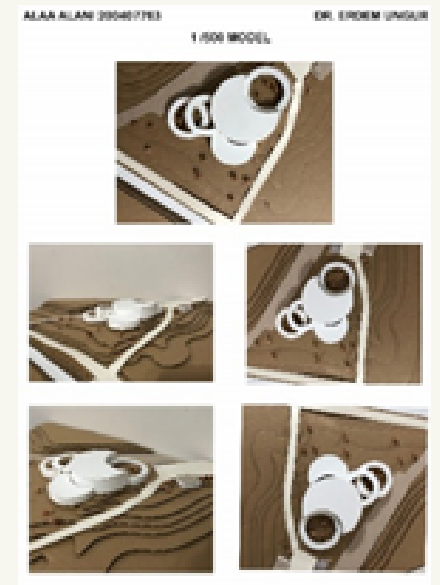
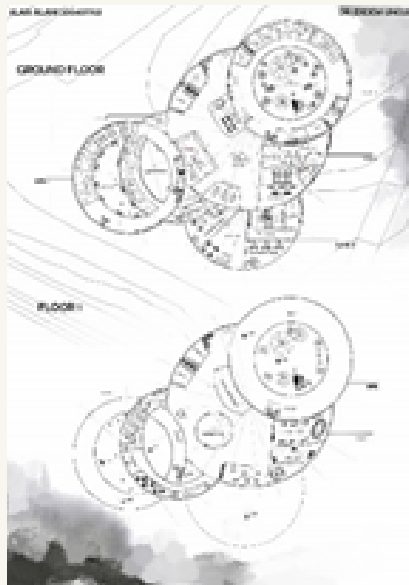
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ARCHITECTURE

A Selection of Student Projects from the 2022-2023 Fall Semester Architectural Design III Course



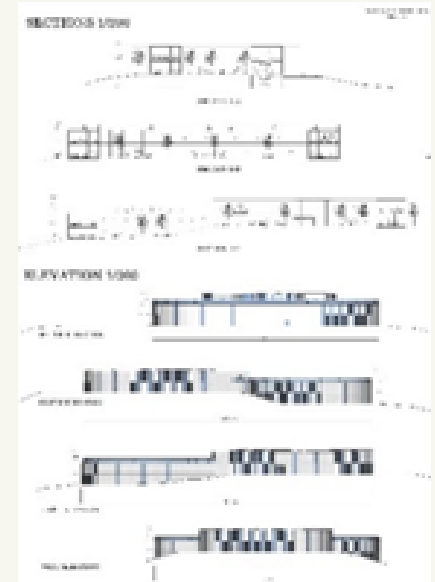
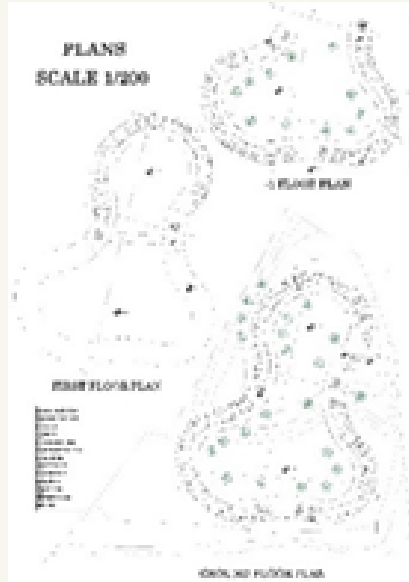
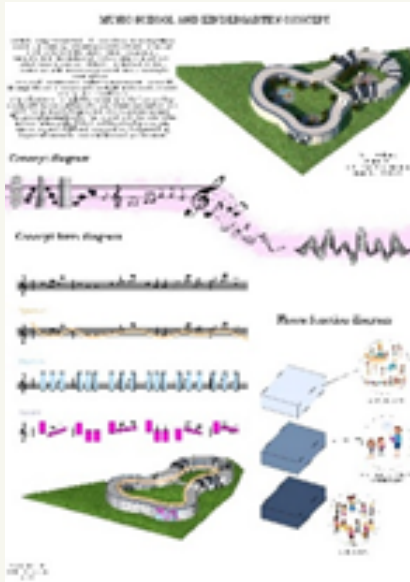
İrem Güneş



Alaa Alani

ARCHITECTURE

A Selection of Student Projects from the 2022-2023 Fall Semester Architectural Design III Course



Farah Safa

ARCHITECTURE



Assist. Prof.

Oluwagbemiga Paul AGBOOLA

Background

From March 2022, I've been working at Istanbul Gelişim University's Department of Architecture. During my tenure at Istanbul Gelişim University, I conducted scientific research and published in a wide range of fields. Thus far, my publications have been relevant to the courses I've been teaching in general; in the fields of Architecture, Cultural and Open Space Sustainability; Landscape; Urban Design, Green Architecture, and Cultural Heritage.

Contact

 opagboola@gelisim.edu.tr

Research Areas:

Architecture

**Cultural and OpenSpace's
Sustainability Landscaping**

Urban Design

Green Architecture

Cultural Heritage

PROJECT ACTIVITIES:

Ongoing Projects

- Supporting Institutions : Kingdom of Saudi Arabia

Situation in the Project : Researcher

Name of The Project: Adoption of Digital Data Capture Techniques in the Representation of Najran Green Urban Space

Research Project Code: UN/NRP/SERC/12/9

- Supporting Institutions: Kingdom of Saudi Arabia

Situation in the Project : Researcher

Name of The Project: A Framework for Eco-Urbanism in Kingdom of Saudi Arabia Selected Cities (Jeddah-Riyadh - Najran

Research Project Code:NU/RC/SERC/12/2

On-Going Research In The Spring Semester of2022-2023

- Ameliorating Climate Change Impacts on the Built Environment.
- A Comparative Framework Analysis of The Strategies, Challenges, And Opportunities For Sustainable Smart Cities.
- Experts' Opinions on the Strategy of Biophilic Design as a Sustainable Architecture.
- The Enhancement of Resilience Built Environment Using Human Social Capital.
- Experts' ViewPoint on Promoting a Healthier Built Environment :Lowering the Threats of Climate Change.
- The Useof Information Communication Technology in Consolidating the Smart City Investment and Building Drives
- The Nexus of Smart Cities and Buildings in Achieving Sustainable Growth of Built Environment: A Quantitative Approach.
- Challenges and Sustainability of the Built UpEnvironment in South West Nigeria.

ARCHITECTURE

Assist. Prof. Oluwagbemiga Paul AGBOOLA

Publications

- Oluwagbemiga Paul AGBOOLA (2022). The Significance Of Rural Markets As A Public Space In Nigeria, Habitat International, Volume 122, 102519, ISSN 0197-3975. ISI / ELSEVIER SCIENCE DIRECT. Q1 RATED IMPACT FACTOR5.3. <https://doi.org/10.1016/j.habitatint.2022.102519> & <https://www.sciencedirect.com/journal/habitat-international/vol/122/suppl/C>
- Oluwagbemiga Paul AGBOOLA, Faizah Mohammed Bashir & Joy Nanlop Uwa (2022): The Cultural Influences on the Nigerian Architecture In South-west, Nigeria; In The Phynogeny of the Nigerian Architecture. The Magazine of Nigerian Institute of Architects, Edition No. 3, August, 2022. ISSN: 2735-9670.
- Oluwagbemiga Paul AGBOOLA, S. Moveh, K. Yahya, H. Attar and A. Amer (2022). "The Role of Smart Environment Initiatives on Environmental Degradation: Consolidating the Resilient Built Landscape," 2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI), Zarqa, Jordan, 2022, pp. 1-5, doi:10.1109/EICEEAI56378.2022.10050481. <https://ieeexplore.ieee.org/document/10050481>
- Oluwagbemiga Paul AGBOOLA; Yakubu Aminu DODO; Samuel MOVEH; & Mukhallad M. AI-MASHHADANI (2022). The Smart Environment Initiatives in Nigeria: Consolidating the Resilient Built Landscape. Published Proceedings Book of the 1st International Conference on Innovative Academic Studies (ICIAS), Held Between September 10th – 13th, 2022, Konya, Turkey. Page 1448-1455. <https://www.icias.net/>.
- Research Tools Participation
- A Webinar on ChatGPT & AI – Powered Bing ChatBot for Academic Researchers' Capabilities, Limitations and Uses Cases Best Practices. Held on Monday, March 20, 2023. Organized by OpenSchool Initiatives, Openschool.sch.ng'

Scientific Profiles:

ORCID : <https://orcid.org/0000-0003-0384-1334>

Arařtırmacı ID: <https://www.researcherid.com/rid/l-4306-2018>

PUBLONS: <https://publons.com/a/1357471>

LINKEDIN: <https://www.linkedin.com/in/dr-agboola-oluwagbemigapaul-b7697338/>

RESEARCHGATE: <https://www.researcherid.com/rid/l-4306-2018>

ACADEMIA:

<https://teknologimalaysia.academia.edu/AgboolaOluwagbemiga/Aalytics/activity/documents>

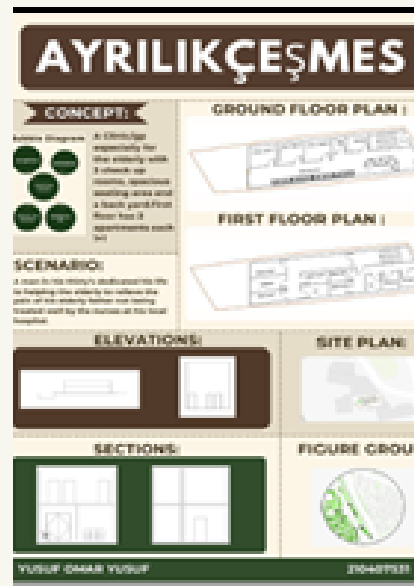
GOOGLE SCHOLAR : <https://scholar.google.com/citations?user=qcKlazzAAAAJ&hl=en>

SCOPUS PREVIEW PAGE:

<https://www.scopus.com/dashboard.uri>

ARCHITECTURE

Examples from 2022-2023 Fall Semester Student Projects



2. Year: Achitectural Design I (ARC 209: GROUP B)

ARCHITECTURE




Assist. Prof. Murat ARAPOĞLU

Background

Since September 2020, I have been working as Assistant Professor Doctor, PhD, faculty member at Istanbul Gelişim University, Department of Architecture. Among the undergraduate courses I teach, there are elective courses related to my field of specialization such as Architecture and Art History I and II, Architecture in Anatolia. Among the master's courses, there are specialization courses such as the Analysis of Building Types of Anatolian Seljuk Architecture.

Contact

 marapoglu@gelisim.edu.tr

Research Areas:

Architecture

Architectural History and Theory

Early Islamic Architecture

Scientific Profiles

ORCID : 0000-0002-1362-4711

RESEARCHGATE : <https://www.researchgate.net/profile/Murat-Arapoglu>

ACADEMIA : <https://gelisim.academia.edu/MuratArapoglu>

ARCHITECTURE



Assist. Prof. Önder ÇELİK

Background

I have been working in both the English and Turkish programs of Istanbul Gelişim University Architecture Department since 2021. Among the undergraduate courses I teach are courses such as Architectural Design 3/4, Graphic Communication 1/2, Basic Concepts of Architecture, Basic Concepts in Architecture. I am also teaching a course called Digital Environment and Architecture Relationship in the Master's program.

Contact

 ocelik@gelisim.edu.tr

Research Areas:

Architectural Design

Criticism and Theory of Architecture

History of Architecture

Ethics and Politics of Architecture

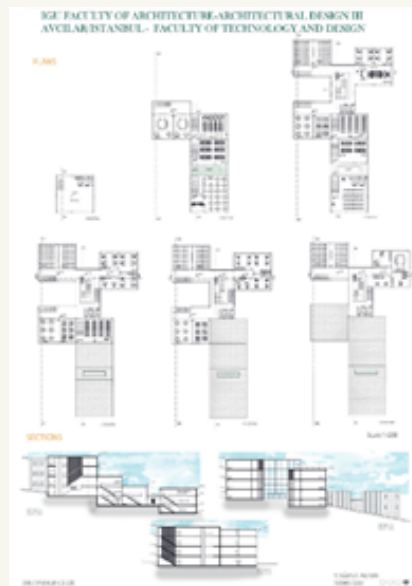
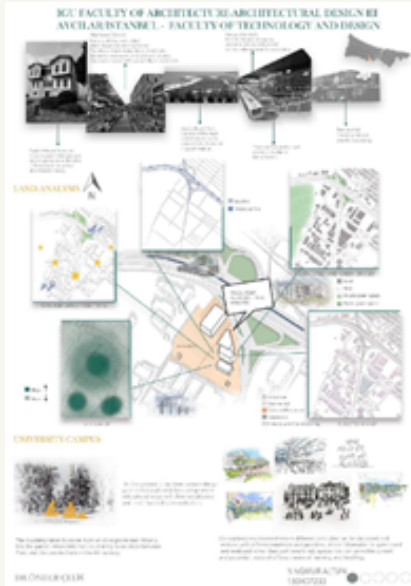
Digital Architecture

Scientific Studies

After joining IGU, I am preparing two articles that I have been working on yet. One of them is The Dimension of Enunciation in Architecture and the other is on Architecture and Criticism and Machinic Capitalism. If you want to get more information about other studies, publications can be accessed from the platforms where my scientific memberships are located.

ARCHITECTURE

A Selection of Student Projects from the 2021-2022 Fall Semester Architectural Design III Course:



Yağmur Altun

ARCHITECTURE




LECTURER

BURAK KAAAN YILMAZSOY

Background

I have been working at Istanbul Gelişim University, Department of Architecture since September 2018. The publications I have made in the last 5 years are generally related to my area of expertise and the courses I teach; urbanism-space-basic design areas. Among the undergraduate courses I teach, there are elective courses related to my area of expertise such as Architectural Project, Basic Design, Urban Planning, Urbanism and Zoning Law, Architectural Expression Techniques, Project and Construction Management.

Contact

 bkyilmazsoy@gelisim.edu.tr

Research Areas:

Basic Design

Space

Urbanism

Urban Design

Urban Identity

Building Physics

Project Management

Administrative Duties

2020-2021 Term Engineering and Architecture Faculty / Faculty Investigation - 1 Year

Duties of IGU

Environmental Urbanism and Earth Sciences Application and Research Center / CSYBUAM -Board of Directors Member. 1 Year / Vice President 1 Year (2 Years)

PROJECT ACTIVITIES

Avcılar Municipality - Istanbul Gelişim University Architecture Department joint project work (Avcılar Merkez Mahallesi Urban Improvement)-FINISHED

Scientific research project

- Investigation of Design Typologies of the Monumental Architectural Heritage of the Seljuk-Ottoman Periods in Konya, the Anatolian Silk Road City (FINISHED)

- Calculation of Vulnerability of 3 Neighborhoods of Avcilar District, which is being carried out within the scope of Comprehensive Research Projects of Avcilar 3 Districts (Delivered)

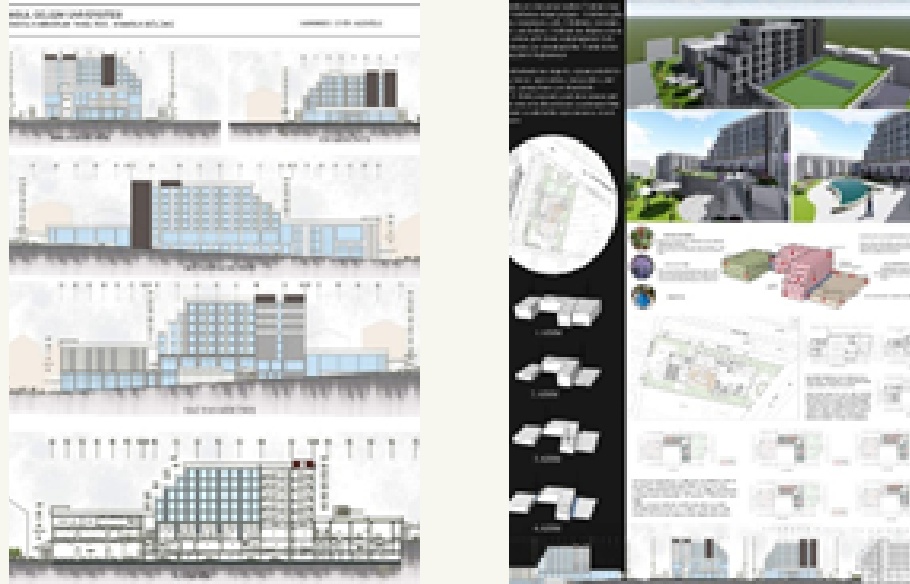
ARCHITECTURE



Basic Design I-II

ARCHITECTURE

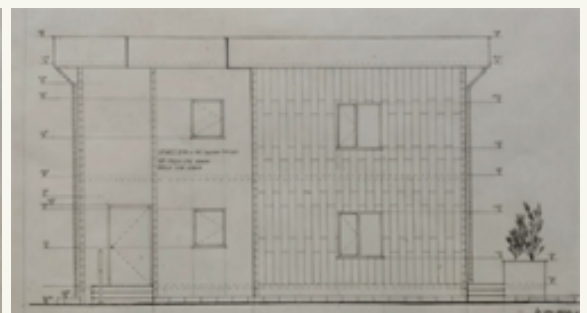
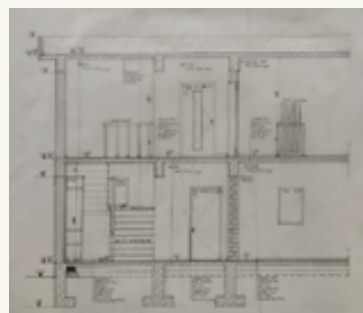
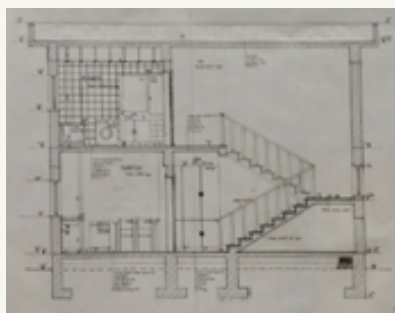
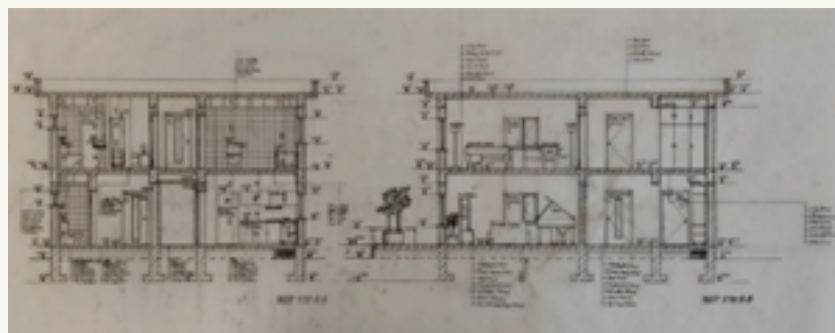
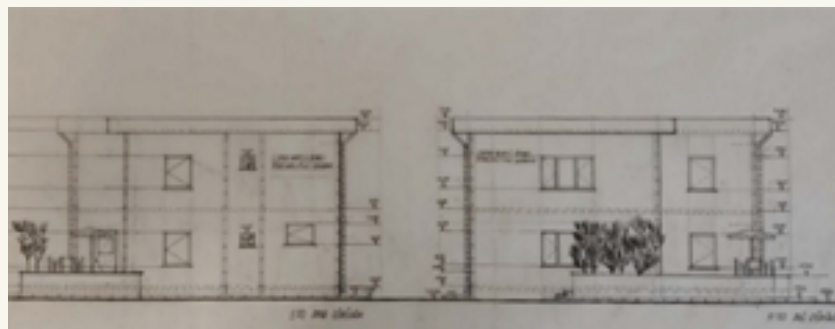
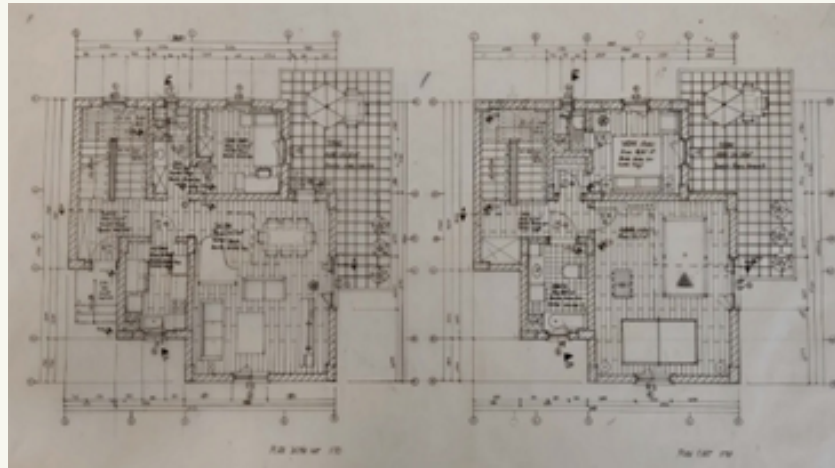
A Selection of Student Studies from Courses



A Selection of Student Projects from the Architectural Project (II-III-IV-Diploma) course

ARCHITECTURE

Student Selection from Architectural Expression Techniques I-II course



ARCHITECTURE




Res. Assist. Hazal TÜRKMEN YAZGAÇ

Background

Res. Assist. Hazal TÜRKMEN YAZGAÇ received her bachelor's degree from Istanbul Technical University in 2016, and her master's degree in 2019 in the field of Restoration at Istanbul Technical University. She is currently continuing her Ph.D. program in Conservation and Restoration at Mimar Sinan Fine Arts University. She works as a research assistant at Istanbul Gelişim University, Department of Architecture.

Contact

 haturkmen@gelisim.edu.tr

Research Areas:

Conservation and Restoration

Architectural Design

Urban Conservation

Cultural Heritage

Membership:

TMMOB Chamber of Architects

Thesis

PhD (Dissertation stage)

A Study on the Outstanding Universal Value and World Heritage Potential of the Menzil Complexes in the Era of Mimar Sinan

Master Thesis, 2019

Restoration project for Aleksiyadi (Melek) Khan in Karakoy

Scientific Profiles

ORCID: 0000-0002-8959-7952

YÖKSİS ID: 313502

LINKEDIN: <https://www.linkedin.com/in/hazal-turkmen-yazgaç-64b0a687/>

ACADEMIA: <https://gelisim.academia.edu/hazalturkmen-yazgac>

ARCHITECTURE



Res. Assist. Hilal DEVER

Background

Res. Assist. Hilal DEVER received her bachelor's degree from Altınbaş University in 2017, and her master's degree in 2022 in the field of Building Science at Mimar Sinan Fine Arts University. She is currently continuing her Ph.D. program in Building Sciences at Istanbul Technical University. She works as a research assistant at Istanbul Gelişim University, Department of Architecture (English).

Contact

 hdever@gelisim.edu.tr

Research Areas:

Architecture

Building Sciences

Building Technology

Building Information Modeling

Thesis

Master's Thesis, 2022

Examination of the design process phase concepts used in building information modeling

Scientific Profiles

ORCID: 0000-0001-9730-2088

YÖKSİS ID: 313566

LINKEDIN: <https://www.linkedin.com/in/hilaldever>

ACADEMIA: <https://independent.academia.edu/HilalDever>

ARCHITECTURE



Res. Assist. Betül GÖK

Background

Res. Assist. Betül Gök received her bachelor's degree from Mersin University in 2017 and her master's degree in 2021 in the field of Building Sciences at Çukurova University. She is currently continuing her Ph.D. program in Building Research and Planning at Technical University She works as a research assistant at Istanbul Gelişim University, Department of Architecture (English).

Contact

✉ begok@gelisim.edu.tr

Research Areas:

Architecture, Architectural Design

Building Sciences

Ephemeral Architecture

Scientific Profiles:

ORCID: 0000-0002-0178-2257

YOKSIS ID: 322191

RESEARCHGATE:

<https://www.researchgate.net/profile/Betuel-Goek>

GOOGLE SCHOLAR:

<https://scholar.google.com/citations?user=NuOX8RMAAAAJ&hl=tr>

Memberships:

UCTEA Chamber of Architects

Thesis

Master's Thesis, 2021

Evaluation of ephemerality concept in architecture through pavilions

Projects

Scientific Projects

TÜBİTAK 1002 : High Density, On-Site Temporary Settlement Structure and Social Networking Model
Role in the project: Researcher
Application : April 2023 (in preparation)

Publications

Articles

International Referee

Erman O., Gök B., (2021) Mimaride Geçicilik Kavramının Sergileme Yapıları Üzerinden Değerlendirilmesi, Mimarlık ve Yaşam Dergisi, 6(3), 2021, (857-877)ISSN: 2564-6109DOI: 10.26835/my.945044

National Referee

Erman O., Gök B., (2021) Ara Mekânda Geçicilik: Covid-19'da Sosyalleşme Alanları, Art&Design-2021, 2(3), 196-211, Niğde Türkiye

Publications in Symposium Proceedings

Erman O., Gök B., (2021) Ara Mekânda Geçicilik: Covid-19'da Sosyalleşme Alanları, Art&Design-2021, 2(3), 196-211, Niğde Türkiye

ARCHITECTURE



Res. Assist. Burcu KORKUT

Background

Res. Assist. Burcu KORKUT received undergraduate degree from Yıldız Technical University in 2015 and master's degree from Istanbul Technical University in 2023. She also carried out Erasmus Learning Mobility at Università degli Studi di Catania (UNICT) in 2012-2013 and at Politecnico di Milano (PoliMi) in 2020-2021. In addition to these, she continues her second undergraduate education at Anadolu University, Department of Philosophy. She works as a research assistant at Istanbul Gelişim University, Department of Architecture.

Contact

 bkorkut@gelisim.edu.tr

Research Areas:

Architectural Design

Urban Design

Architectural Theory

Urban Theory

Space Philosophy

Urban Sociology

Urban Art

Memberships:

UCTEA Chamber of Architects

Youth Season Association

Thesis

Master's Thesis, 2023

The Externalization of Urban Praxis in the Dialectic of Consumption and Production: Street Art

Scientific Profiles

ORCID: 0000-0002-3919-8638

YOKSIS ID: 368351

RESEARCHGATE: <https://www.researchgate.net/profile/Burcu-Korkut>

ACADEMIA: <https://istanbultek.academia.edu/BurcuKorkut>

GOOGLE SCHOLAR:

<https://scholar.google.com/citations?user=bkSqvrOAAAAJ&hl=tr&authuser=1>



ISTANBUL
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research
HIGHLIGHTS

EVENTS



CONVERSATION ABOUT ARCHITECTURE WITH BERKMAN

Ali Berkan, the founder of ONOFF Lighting Design and a lighting designer himself, explained the place of lighting design in architectural design to the students of Architecture and Interior Architecture at Gelişim Tower K Block Fırnas Auditorium on Friday, December 9, 2022, between 15.00-18.00. The event continued in the form of questions and answers after Ali Berkman's presentation.

COMPUTER AIDED DESIGN EVENT

Academic Licensing and Sales Specialist Aybüke TEMİZ and Architect Mertkan YORULMAZ gave Computer Aided Design training to the students of the Department of Architecture on November 15, 2022. The event was held online.



ISTANBUL GELİŞİM ÜNİVERSİTESİ

Mimarlık ve Tasarım Kulübü

Yaşadığınız Yerin Farkında mısınız?



KONUŞMACI
Ersen GÜRSEL
Mimar

16 Kasım 2022
Çarşamba

14.00
17.00

K Blok
Firnas Oditory
Konferans S

gelisim.edu.tr

ARE YOU AWARE OF WHERE YOU LIVE? SEMINAR

Architect Ersen GÜLER, one of the founders of the EPA Architecture and Urbanism Workshop, held a seminar titled **Are You Aware of Where You Live** with Architecture students at Gelişim Tower K Block Firnas Auditorium on 16 November 2022 between 14.00-17.00. The event continued in the form of questions and answers after Ersen GÜLER's presentation.

ARCHITECTURAL TALK WITH ARCHITECT MURAT GERMEN

Architectural Photographer Murat GERMEN, a graduate of ITU Faculty of Architecture, held a seminar with Architecture students on 28 November 2022. The online event continued in the form of questions and answers after Murat GERMEN's presentation.

MURAT GERMEN
İLE
MİMARİ
SÖYLEŞİ



28/11/2022 PAZARTESİ

ONLINE
LINK: [HTTPS://MEET.GOOGLE.COM/RXG-HTCJ-WOH](https://meet.google.com/rxg-htcj-woh)

14:00



LESS IS MORE SEMINAR

Architect Gökhan Avcioğlu, the founder of GAD Architecture, one of the leading groups in architectural project production, research and design, met with our students and alumni on Wednesday, 11 May, 2022 at 11.30 am at the Aziz Sancar Conference Hall. He signed the newly released book "Less or More" and donated it to the library of Istanbul Gelişim University on behalf of the Department of Architecture.

ARCHITECTURAL PRESENTATION TECHNIQUES WORKSHOP


Architect Burak Uzun organized an Architectural Presentation Techniques Workshop on May 9, 2022 with the invitation of the Architecture and Design Club. In the workshop, the elements and tricks for presentation such as shading techniques and pen thicknesses on Autocad and Photoshop programs were explained.

ISTANBUL
GELİŞİM
UNİVERSİTESİ

ARLIK VE TASARIM KULÜBÜ

MİMARİ SUNUM TEKNİKLERİ ATÖLYESİ

Konuşmacı



Burak UZUN
Yüksek Mimar

09 Mayıs 2022
Pazartesi

18.00

Google Meet
meet.google.com/rzw-wzve-xcq

gelisim.edu.tr



ARCHITECTURAL TALK WITH MELKAN GÜRSEL TABANLIOĞLU

A conversation was held with Melkan Gürsel Tabanlıoğlu on Wednesday, April 13, 2022 at 14.00 as part of the Architecture and Design Club Architectural Talks Series. Tabanlıoğlu Architecture partner Melkan Gürsel Tabanlıoğlu, who has signed successful projects that won many awards in the national and international arena, was among the most important female architects of the world.

PRODUCTION WORKSHOP

A "Production Workshop" event was held with Sra Stoney Galley firm on Friday, April 22, 2022 at 10:00 in the workshop no. 284 in J Block. The event consisted of two parts. In the first part, the importance and awareness of material knowledge in architecture was presented. Afterwards, a porcelain material workshop was built in the second part.





THE ADVENTURE OF ARCHITECTURE AND FUTURE ARCHITECTURE

A seminar on “The Adventure of Architecture and Future Architecture” was held with Architect Bahadır Kul, the founder of BKA Architecture, on Wednesday, April 27, 2022, between 13.30-16.30. The online event continued in the form of questions and answers after Bahadır KUL's presentation.

ARCHITECTURAL TALK WITH AND AKMAN

With the participation of Interior Architect and Structural Biologist And Akman, an interview was held with Architecture students on Wednesday, December 2, 2021 at 20.00. The online event continued in the form of questions and answers after And AKMAN's presentation.



DOCUMENTARY EVENT



With the participation of Instructor, Eda ARISOY and Dr. Pınar Kırkık AYDEMİR, a documentary watching event was held on 4 December 2021 of Yozgat Blues and Dogtooth movies were watched at the event.

HARDWARE THAT REMOVES LIMITS IN DESIGN

One of the Architectural Conversations series took place face to face on Friday, December 24 at 13.00-15.00 with by Rotofrank Turkey by Technical Manager Yusuf Arabacı and Marketing - Corporate Communications Officer Fulya Çelebi İlaslan under the title of "Hardware that Removes Limits in Design". The conversation is held at the E Block Conference Hall.



BASIC PRINCIPLES IN PHOTO COMPOSITION

Within the scope of the Basic Design I (ARC123) course, on Thursday, 21.10.2021, between 12.20-14.20, the seminar on "Basic Principles in Photo Composition" was held by Lect. See. Başak Ildız YERLIKAYA with the invitation of the course directors, Dr. Nihal KAYAPA and Lecturer. See. Hilay ATALAY.

FROM ARCHITECTURE TO ART SEMINAR

Turkish cartoonist, writer and documentary film director Behiç AK held an online seminar titled "From Architecture to Art" on Sunday, May 20, 2021, at 16.00, as part of the Architectural Talks event series. The event continued in the form of questions and answers after Behiç Ak's presentation.



ISTANBUL GELİSİM ÜNİVERSİTESİ

* **Mimari Söyleşiler**
Mimarlıktan Sanata

MAYIS
2
Pazar 16:00

Mimarlık Bölümü

Konuşmacı: **Behiç AK**
Karikatürist, yazar

google meet



ARCHITECTURAL TALKS SERIES



In April 2021, four Architectural Talk events were held at our university. With the participation of Architect Abdurrahman ÇEKİM "My Professional Experiences" was held on Sunday, April 4, 2021, at 16.00. With the participation of Architect Betül Gök "On Ephemeral Architecture" was held on Sunday, April 11 at 16:00. With the participation of Assoc. Dr. Gül Yücel "Travel and Shopping in Istanbul" was held on Sunday, April 18, at 16.00. With the participation of Architect Cemil AKTAŞ "Urban Design Projects in Istanbul" was held on Sunday, April 25 at 16.00.

ARCHITECTURAL TALKS SERIES

In March 2021, four Architectural Talk events were held at our university. On Saturday, March 6 at 16:00, with the participation of Mehmet Sarper Takkeci; On Saturday, March 13 at 16:00, with the participation of Master Architect Sümeyye Kaymak, under the title of "Nature Based Approaches in Architecture: Fractal Geometries and Morphogenesis"; On Sunday, March 21, at 16:00, with the participation of Dr. Erdal Yıldız, under the title of "Expectations from Architectural Education in Today's Conditions"; on Sunday, March 28 at 16:00 under the title "From Architectural Design to Underwater Filmmaking Design" with the participation of Underwater Film Production Director Bengiz ÖZDERELİ.



ON ARCHITECTURE WITH NEVZAT SAYIN

Famous Architect Nevzat Sayin, who has his own architecture workshop since 1985, gave an online seminar on Architecture on May 9, 2020. The event continued in the form of questions and answers after Nevzat SAYIN's presentation.

ABOUT ARCHITECTURE WITH EMRE AROLAT

Architect Emre AROLAT, the architect of structures such as Sancaklar Mosque, Dalaman Airport, Bergama Cultural Center, Antakya Museum Hotel, Zorlu Center, METU Research Center, Istanbul Painting and Sculpture Museum, and who was deemed worthy of many national and international awards, will have an online presentation on 13 May 2020. The event continued in the form of questions and answers after Emre AROLAT's presentation.

ABOUT ARCHITECTURE WITH CAN ÇINICI

Famous architect Can Çinici held an online seminar on Architecture on May 23, 2020. The Grand National Assembly Mosque Complex, designed by Can Çinici with his father, Behruz Çinici, is considered one of the most remarkable modern mosque practices in the history of Turkish architecture. The event continued in the form of questions and answers after Can ÇINICI's presentation.

NEOLITHIC ARCHITECTURE IN ANATOLIA WITH ENIS RIZA SARIKIZLI

Enis Riza SARIKIZLI, a Turkish documentary filmmaker, trainer, writer and one of the founders of the Documentary Filmmakers Association, gave a seminar on Neolithic Architecture in Anatolia on April 18, 2020, from the perspective of a documentary filmmaker. The event continued in the form of questions and answers after Enis Riza SARIKIZLI's presentation.



UCTEA CHAMBER OF ARCHITECTS VISIT

Architecture and Design Club students and club advisor Lecturer Burak Kaan YILMAZSOY visited UCTEA Chamber of Architects Istanbul Büyükkent Branch on October 27, 2022 and had an interview with the Branch President Esin KÖYMEN. A book was given to the students by Esin Köymen.

BALAT SITE VISIT

On Thursday, November 27, within the scope of the MIM417 SURVEY AND RESTORATION course, Architecture and Civil Engineering students conducted analysis studies in the Balat district with Assoc. Prof. ilke CİRİTCİ, the instructor of the course.





ARCHITECTURE AND DESIGN CLUB BREAKFAST MEETING

The breakfast meeting to be organized by the Architecture and Design Club took place in Beşiktaş with the participation of our students and Assoc. Prof. Sema Alaçam from the Department of Architecture at Istanbul Technical University. At the meeting, certificates of appreciation were presented to the club students for the 2021-2022 Term.

HISTORY OF ARCHITECTURE BÜYÜKÇEKMECE SITE VISIT

Assoc. Dr. Türkan UZUN, within the scope of History of Architecture and Museum Architecture classes, organized a trip to Sancaklar Mosque designed by Emre AROLAT, and then to Büyükçekmece Bridge, one of the works of Mimar Sinan, on May 10. The Caravanserai of the Büyükçekmece Menzil Complex, built by Kanun Sultan Süleyman, was also visited.





AWARDS

The team, including Dr. Meryem Müzeyyen FINDIKGİL, won the first prize in the Istanbul is Yours Design Competition For Golden Horn Waterfronts (5th District).

OYAK CEMENT DESIGN COMPETITION STUDENT CATEGORY

Our student Abdulkerim ULUER won the third prize with his project titled "It's Not a Thing, It's Everything" in the Cement Design Contest organized by OYAK Cement Concrete Paper Group in 2019 with the theme of "Unexpected Transformations", which encourages student and professional designers to produce designs using cement.





PENDIK SITE VISIT

Within the scope of the ARC420 DIPLOMA PROJECT course, the students of the Department of Architecture conducted analysis studies in Pendik together with the course instructors Dr. Meryem Müzeyyen FINDIKGİL, Dr. Semih Göksel YILDIRIM and Dr. O. Paul AGBOOLA.

ISTANBUL FOUNDATION FOR CULTURE AND ARTS (İKSV) SITE VISIT

İKSV organizes the Pavilion of Turkey at the Venice Biennale International Art and Architecture Exhibitions, works to contribute to the development of cultural policies, prepares reports, and supports artistic and cultural production by ordering awards and works at its festivals. İKSV is involved in international and local co-productions, a residency program at the Cité Internationale des Arts in France, and the coordinator of the annual Aydın Gün Encouragement, Talât Sait Halman Translation and Gülriz Sururi-Engin Cezzar Theater Encouragement Awards.



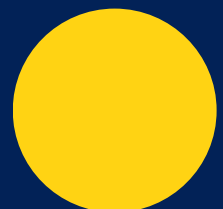


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HIGHLIGHTS



STUDENTS



THROUGH OUR STUDENTS' EYES



HANDENUR SEVİNDİK
Graduate Student

Being able to continue my education as a graduate of the Department of Surveying Engineering at Istanbul Gelişim University Architecture Master's Program makes me very proud of my career and goals. As a graduate student at Istanbul Gelişim University, I had the opportunity to do a master's degree in Architecture after completing my 1-year academic scientific preparation courses. After successfully completing the 1 year academic preparation program, I am studying for the second semester of my master's degree. Being able to take part in research projects in various branches and with universities gave me the opportunity to apply the theoretical knowledge I gained in my undergraduate and graduate education. In addition, I can say that I can apply my studies more consciously because the teachers we work with are dynamic, well-equipped and have many languages.

THROUGH OUR STUDENTS' EYES



RAMAZAN TUNAHAN DELER
Undergraduate Student, 2nd Year

Briefly, architecture; It is the art of designing structures and spaces within the framework of usability, continuity and aesthetics. In addition to our profession, architecture gives us perspective, intellectuality and a desire to explore, enabling us to look at our environment from different perspectives. For architectural education, we can say that Istanbul is the most central place, where architecture is more understandable, where more examples can be seen and experienced. Architectural education is an interdisciplinary education system focused on applied education and supported by theoretical knowledge. The academic staff of our university's architecture department has successful and well-equipped professors and is focused on providing student development and professional competence both within the scope of lessons and extracurriculars. Our courses mainly focus on architectural design, technical drawing and design in the first year. The architecture department of our university, apart from the courses I mentioned, hosts many courses and supports us for architectural design competitions held in our country.

THROUGH OUR STUDENTS' EYES

ABDULRAHMAN DAVUT
Undergraduate Student, 2nd Year



I would like to tell you why I chose Architecture and IGU. My purpose in choosing architecture was the features it gained and the purpose it served with the research I did during my preference period. The reason why I chose IGU was that it has experienced teachers and the opportunities it offers. With the advice and training given by the instructors, I can now focus on everything when entering a place. That is, the materials used, workmanship, quality, design, etc. I pay attention to things like In terms of education, we learned hand drawing and technical information with the Technical Drawing course in the first year. Then, Basic Design, one of the other important courses, introduced us to exhibitions and museums and guided us in the direction of design with abstract works. In addition, we learn material properties by making models with materials. In the 2nd grade, we start to design projects. The important thing when designing a project is to act together with the analyzes in the region. Then, to describe the spaces we want to design with sketches. Our teachers guide us about these in every lesson. In addition, we use many digital programs in the design process. We continue to improve ourselves with the exhibitions and competitions suggested by our teachers every week.



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GRADUATES



GRADUATES



İlayda ÖZDEMİR Architect / Interior Architect

Hello, my name is İlayda Özdemir. I graduated from Istanbul Gelişim University as Interior Architecture and Environmental Design Major, Architecture Double Major. After gaining experience in both the application and the project part in different companies for 3 years, I established my own company.

When I won the department, I was very nervous because you are preparing to study a design department and instead of making an appointment and meeting with the Lecturer like other departments, you may have to express your ideas at that moment. The biggest advantage of being at IGU is that you can communicate with the instructors regardless of time and place. I want you to know that every Lecturer's door is open to you until the end.

IGU takes you out of this rote-based system completely. It encourages you to think and always improve. While doing this, I can easily say that he prepared himself for this sector. As an example, you are given projects in ever-growing square meters each semester. In these projects, we can work with different professors every semester. This actually allows you to more clearly understand the different customer groups within the industry. Rather than being the school I graduated from, IGU can be said to be my family, all my great 'good luck's. After I graduated, I gained a huge family that never gave up and whose support I always felt.

GRADUATES



Burak DEMİR
Architect

I graduated from Istanbul Gelişim University, Faculty of Engineering and Architecture, Department of Architecture in 2020 with honors. I work as an architect in Avcılar Municipality. Individuals equipped with architecture, literature and technical knowledge build the living spaces of living things, especially cities and the structures that make up cities.

IGU Architecture Department educates individuals who produce the space with its course contents and academicians, with its student-oriented dynamic curriculum, which is revised according to the needs and learning goals of the age. As a result of my learning experience at IGU, it is a sincere assessment to say that individuals graduate with the knowledge and competence that the industry needs.



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**FACULTY OF ENGINEERING AND
ARCHITECTURE**

**AERONAUTICAL ENGINEERING
DEPARTMENT**

AERONAUTICAL ENGINEERING

Prof. Dr. Cemalettin KUBAT Head of the Department



Dear readers,

Aeronautical Engineering Department meets the need for engineers in the aerospace industry. Thanks to the training given in the aircraft engineering department, aircraft engineers who can design, maintain and develop aircraft are trained. In the Department of Aeronautical Engineering, details about the design and development of aircraft, missiles, UAVs, navy and other aircraft are taught by keeping the engineering principles in the foreground. Aeronautical engineers can work in both the public and private sectors where aircraft, helicopters, UAVs, and navy vehicles, which have developed in our country in recent years, are developed. Aeronautical engineers work in large aircraft companies, in the missile and rocket industry, and in companies that use technologies that develop aircraft such as UAVs and guns.

The aim of aeronautical engineering is to take part in this sector and to play a role in important developments by increasing the use of space technologies along with the developing technology. The aeronautical engineering division represents the engineering fundamentals that deal with the design, research, development, science and technology of aircraft.

The Aeronautical Engineering Department is included in the engineering faculties of universities. A four-year undergraduate education is given in the Department of Aeronautical Engineering. Students who graduate from this department can start working in companies related to their fields after completing their internships in related companies.

In the Department of Aeronautical Engineering, students are given courses such as computer and information systems, dynamics, materials science, thermodynamics and automatic control. In addition, courses such as statics and strength, experimental engineering, aircraft and spacecraft materials, aerospace structures, artificial intelligence and robotics are given for 8 semesters (4 years).

Istanbul Gelişim University Aeronautical Engineering Department (Turkish) as a part of Architecture and Engineering Faculty started education in the 2019-2020 period and will give its first graduates at the end of the 2022-2023 academic year. The Department, which provides education in English, has started education in the period of 2021-2022. The Thesis and Non-Thesis Master's Programs (Turkish) in the Department of Aeronautical Engineering, affiliated to the Department, established within the Graduate Institute, have also been opened to education and accept undergraduate students from all engineering branches.

Head of the Aeronautical Engineering Department
Prof. Dr. Cemalettin KUBAT

AERONAUTICAL ENGINEERING

GENERAL INFORMATION



Aeronautical Engineering; It is a branch of science that deals with the design, production, testing, research and development, maintenance and repair of all kinds of manned and unmanned vehicles in air and space. The Department of Aeronautical Engineering aims to train talented engineers who have the ability to solve problems in the professional field, who can think innovatively, and who will successfully serve our aviation and space industry, with the theoretical and practical course content and the education system where current developments are followed instantly.

AERONAUTICAL ENGINEERING

PROGRAM EDUCATION GOALS



- 1. Gain reasoning, critical thinking and applied skills to identify, analyze and solve problems.**
- 2. Communicate effectively orally and in writing to express technical information, ideas and suggestions.**
- 3. Considers the professional, ethical and social responsibility of engineering technology applications.**
- 4. Acts effectively, thinks independently and works collaboratively in a team environment in a membership or leadership role.**
- 5. Actively participates in professional development, including continuous self-development and lifelong learning.**

AERONAUTICAL ENGINEERING

MISSION

The mission of our department is to train aeronautical engineers who open to scientific and technological developments, self-confident in every field, adheres to Atatürk's principles, can think scientifically, contemporary and universally, has team consciousness and ethical values, has the ability to think critically, is equipped with a sense of social responsibility, has hope for the future, can look with determination and faith.



VISION

To establish a global research network by providing quality and professional education, to carry out joint projects with internationally renowned schools and to make a name for itself as an international educational institution in the world. By creating a corporate culture committed to participation and teamwork with all its academic and administrative staff, it is to take the existing educational opportunities further, to provide education opportunities for students with insufficient financial situation and to contribute to the social and economic development of Turkey.

ACADEMIC STAFF



Prof. Dr. Cemalettin KUBAT
Ph. D. İstanbul University



Prof. Dr. Bahri ŞAHİN
Ph.D. Istanbul Technical University



Prof. Dr. Necmettin MARAŞLI
Ph. D. Oxford University



Prof. Dr. Abdurrahman HACIOĞLU
Ph.D. Istanbul Technical University



Prof. Dr. Mahmut Adil YÜKSELEN
Ph.D. Istanbul Technical University



Prof. Dr. Osman Ergüven VATANDAŞ
Ph.D. Istanbul Technical University



Prof. Dr. Ali KODAL
Ph. D. University Of Michigan



Prof. Dr. Ahmet Cihat BAYTAŞ
Ph.D. Istanbul Technical University



Prof. Dr. Oktay ÖZCAN
Ph. D. University Of California



Asst. Prof. Dr. Hadi ERCAN
Ph. D. Yıldız Technical University



Asst. Prof. Dr. Samuel MOVEH
Ph. D. University of Technology
Malaysia



Asst. Prof. Dr. Sevgihan YILDIZ
BİRCAN
Ph. D. Nagoya University

ACADEMIC STAFF



Asst. Prof. Dr. Meltem UZUN
Ph. D. Yıldız Technical University



Asst. Prof. Dr. Murat Metehan
TÜRKOĞLU
Ph.D. Istanbul Technical University



Res. Asst. Mustafa Cem AVCI
MSc. Abant İzzet Baysal
University



Res. Asst. Özlem YALÇIN
MSc. İstanbul University-Cerrahpaşa

AERONAUTICAL ENGINEERING

UNDERGRADUATE PROGRAM

Aeronautical Engineering is defined as a branch of science that deals with the design, production, testing, research and development, maintenance and repair of all kinds of manned and unmanned vehicles in air and space. The Department of Aeronautical Engineering aims to train talented engineers who have the ability to solve problems in the professional field, who can think innovatively, and who will successfully serve our aviation and space industry, with the theoretical and practical course content and the education system where current developments are followed instantly.

There are two separate Aeronautical Engineering Departments at Istanbul Gelisim University, the languages of instruction which are Turkish and English. Currently, 9 professors, 4 assistant professors and 4 research assistants work in the Departments of Aeronautical Engineering. In the 2022-2023 spring term, the total number of students in aeronautical engineering is 658, of which 322 in the Turkish department and 336 in the English department. Aeronautical engineering will give its first graduates in the spring term of 2022-2023.

The availability of hangar and workshop environments on aviation systems at Istanbul Gelişim University is the reason for students to better understand the theoretical lessons and because of the ease of transportation of these units.

AERONAUTICAL ENGINEERING

MASTER'S AND DOCTORATE PROGRAMS

The Aeronautical Engineering Master's Program started its education and training activities on 13.05.2020. There are two separate master's programs in our department, with and without thesis.

The purpose of opening the Aeronautical Engineering Master's Program is to provide graduate education to aeronautical engineers working in the aviation industry, to gain the knowledge and skills to think analytically, to produce solutions for problems, to manage and organize, and thus to contribute to the aviation industry. Making projects in cooperation with the sector by bringing a scientific perspective to the workforce in question and providing the sector employees with training opportunities where they can improve themselves are among the other opening purposes of the program. The non-thesis master's program consists of at least ten courses with a total of not less than thirty credits and a term project course. There are 18 students in total in the 2022-2023 spring semester in Aeronautical Engineering master's programs with and without thesis.

There is not a doctoral program in the Department of Aeronautical Engineering, but studies are underway to open it.



ISTANBUL
GELISIM
UNIVERSITY

research
HIGHLIGHTS



ACADEMIC CV AND SCIENTIFIC STUDIES

AERONAUTICAL ENGINEERING



Prof. Dr. Cemalettin KUBAT

Background

Prof. Dr. Cemalettin KUBAT received his undergraduate degree from Ankara University Mathematics Department in 1974, his master's degree from Ege University Applied Statistics Department in 1980 and his doctorate degree from İstanbul University Production and Marketing Department in 1992. He is the head of the Department of Aeronautical Engineering at İstanbul Gelişim University.

Contact

 ckubat@gelisim.edu.tr

Research Areas

Artificial Intelligence

Digital Systems

Optimization

Operations Research

Strategic Planning

Expertise

Optimization

Operations Research

Strategic Planning

Publications

2021

- Peker N., Kubat C., “ A hybrid modified deep learning data imputation method for numeric data sets “, International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING, 2021.
- Peker N., Kubat C., “ Application of Chi-square discretization algorithms to ensemble classification methods” 2021
- TAŞKAN B., Karatop B., Kubat C. “Decision Analysis related to the Renewable Energy Investments iTurkey Based on a Fuzzy AHP-EDAS-Fuzzy FMEA Approach”, Computers & Industrial Engineering, Special Issue: , January, 2021
- TAŞKAN B., Karatop B., Kubat C. “Development of the Field of Enterprise Performance During the Industry 4.0 Period “ , Scientica Irenica, Feb, 2021
- Bayraktar, T., Ersöz, F., Kubat C. “ Effects of memory and genetic operators on Artificial Bee Colony algorithm for Single Container Loading problem” Applied Soft Computing 108 (2021)107462 .
- Peker N., Kubat C., “The Effect of Size Reduction on Fuzzy C-Mean Clustering Techniques”, Journal of Data Science, 4(1), 1-7, 2021
- Taşkan, B., Karatop, B. & Kubat, C. (2021),Development of the Field of Enterprise Performance during the Industry 4.0 Period, Australian Journal of Management.



AERONAUTICAL ENGINEERING

Prof. Dr. Cemalettin KUBAT

Papers

- 2021 Bayraktar,T.,Ersöz Fç, Kubat C., “ Effects of Memory and Genetic Operators on Artificial Bee Colony Algorithm for Three-Dimensional Bin Packing Problem”, Symposium of Intelligent Manufacturing and Service Systems ,2021 , Sakarya, Turkey.

Book Chapters

- 2021 Kubat C., (September 2022), “Introduction to Industrial Engineering”, ISBN: 978-625-427-200-4 , Nobel Publications, Chapter Authoring.
- 2022 Kubat C.,(2021), ” Artificial Intelligence Digital Systems and Applications “(Editor: Cemalettin KUBAT), Papatya Publishing, Number of Edition:1, Number of Pages 460, ISBN: ,Turkish(Scientific Book), (Publication Number:), International book editor.

Projects

- 2022 Environmentally Friendly Autonomous Robot Project (2022)
(Istanbul Gelisim University Project Group)

AERONAUTICAL ENGINEERING



Prof. Dr. Bahri ŞAHİ Background

Prof. Dr. Bahri Şahin completed his undergraduate education in the Department of Mechanical Engineering at Gazi University in 1977, his master's degree in 1979 at Yıldız Technical University, Institute of Science and Technology, Department of Mechanical Engineering, as a TÜBİTAK scholar, and his PhD in 1985 as a Tubitak Honorary Scholar at the Nuclear Energy Institute of Istanbul Technical University in the Nuclear Technology Program. He has many international studies in the fields of Thermodynamics, Energy Production Systems, Energy Technologies, Design and Optimization of Thermal Systems and Energy Economics. He was elected as a principal member of the Turkish Academy of Sciences (TÜBA) with the decision taken at the TÜBİTAK Science Board meeting dated 06.10.2012 and numbered 212. He served as the Chairman of the TÜBA-GEBİP Engineering Awards Committee and is currently a member of the TÜBA-GEBİP Engineering Sciences Committee. Prof. Dr. Bahri Şahin has been working as the rector of Istanbul Gelişim University since 2022.

Contact

 bsahin@gelisim.edu.tr

Research Areas

Mechanical Engineering

Energy

Thermodynamics

Thermal Systems

Engineering and Technology

Expertise

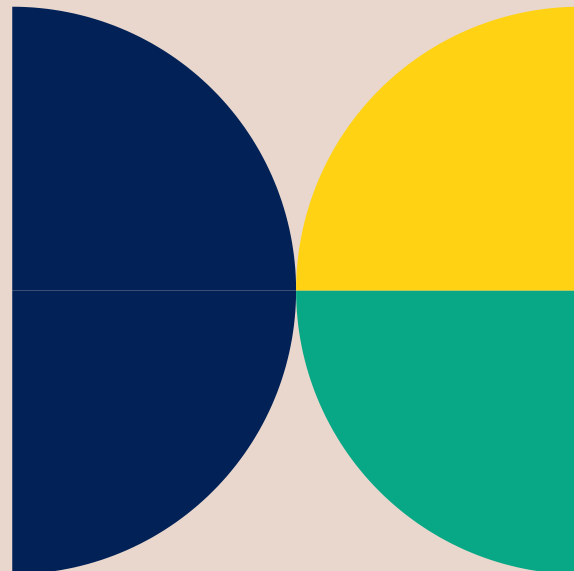
Mechanical Engineering

Energy

Engineering and Technology

Publications

- 2022 • Gonca, G., Şahin, B., & Hoccoğlu, M. F., (2022). Influences of hydrogen and various gas fuel addition to different liquid fuels on the performance characteristics of a spark ignition engine. *International Journal of Hydrogen Energy*, 47(24), 12421 - 12431.
- Gonca, A. G., Şahin, B., & Genç, İ., (2022). Investigation of maximum performance characteristics of seven-process cycle engine. *International Journal of Energy*, 37(3), 302 - 312. *Applied Physics Reviews*, 6 (2)
- 2020 • Bejan, A., Gunes, Ü., & Şahin, B., (2020). University Rankings: Quality, Size and



AERONAUTICAL ENGINEERING



Prof. Dr. Necmettin MARAŞLI Background

Prof. Dr. Necmettin MARAŞLI received his PhD from Oxford University, Department of Materials Engineering in 1995. He is a full-time professor at Istanbul Gelişim University, Faculty of Engineering and Architecture, Department of Aeronautical Engineering (English). His research interests include linear solidification, solid-liquid interface energy measurements, temperature variation of thermal and electrical conductivities, and the dependence of mechanical and thermophysical properties on growth rates in multicomponent metallic and transparent organic alloys. He took part in 40 research projects and published 140 scientific articles in international journals with high impact factor. He is also a member of the editorial board and referee in many international journals. He served as Head of Department, Deputy Director of the Institute, Director of the Institute, Member of the University Senate and Member of the University Board of Directors at various universities. He is currently working as the vice-rector responsible for research and the dean of the Faculty of Engineering and Architecture at Istanbul Gelişim University.

Contact

 nmarasli@gelisim.edu.tr

Research Areas

Intermetallics

Surfaces and Interfaces

Material Science

Thin Films and Nanosystems

Expertise

Material Science And Engineering

Mechanical Properties

Engineering and Technology

Publications

- 2020 • S. Basit, S. Birinci, N. Maraşlı, "Electro growth of Al-Cu eutectic alloy", MATERIALS CHARACTERIZATION, 161 (2020) 110157, p-1-9.
- U. Bayram, N. Maraşlı, " Effects of Growth Rate on Eutectic Spacing, Microhardness and Ultimate Tensile Strength in the Al-Cu-Ti Eutectic Alloy" PHYSICS OF METALS AND METALLOGRAPHY, 121; 4 (2020) 426-434.
 - Sercan Basit, Semih Birinci, and Necmettin Maraşlı "Growth of rod structure with static electrical field in the Al-Ni eutectic system" JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS (2020) 31:14055-14068.
 - Pınar Ata Esener, Sezen Aksöz, Esra Öztürk, and Necmettin Maraşlı "The Variations of Electron and Phonon Contributions to the Thermal Conductivity with Temperature in the Sn-Bi-In-Zn Alternative Lead-Free Solder Alloys" The PHYSICS OF METALS AND METALLOGRAPHY, 121; 14 (2020) 15-24. 10.1134/S0031918X20140082.
- 2021 • Necmettin Maraşlı and Ümit Bayram, "Investigations of Electrical Resistivity and Thermal Conductivity Dependences on Growth Rate in the Al-Cu-Ti Eutectic Alloy" INTERNATIONAL JOURNAL OF THERMOPHYSICS 42;6 (2021) 94. DOI: 10.1007/s10765-021-02845-6
- Necmettin Maraşlı; Ümit BAYRAM; Sezen AKSÖZ "The variations of Electrical Resistivity and Thermal Conductivity with Growth Rate for the Zn-Al-Cu Eutectic Alloy" JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 32:13 (2021) 18212-18223. DOI:10.1007/s10854-021-06363-x
 - Sercan Basit, Semih Birinci and Necmettin Maraşlı "Solidification of A356 Alloy under Different Directions and Magnitudes of Static Electrical Field", INTERNATIONAL JOURNAL OF METALCASTING, DOI: 10.1007/s40962-021-00641-4 Early Access, JUN 2021.

AERONAUTICAL ENGINEERING

Prof. Dr. Necmettin MARAŞLI

Publications

2022

- Semih Birinci, Sercan Basit, Necmettin Maraşlı "Influences of Directions and Magnitudes of Static Electrical Field on Microstructure and Mechanical Properties for Al-Si Eutectic Alloy" JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 1-10 (2022). <https://doi.org/10.1007/s11665-021-06564-9>
- Sezen Aksöz, Pinar Ata Esener, Esra Öztürk, Necmettin Maraşlı "Effects of Bi content on thermal, microstructure and mechanical properties of Sn-Bi-In-Zn solder alloy systems" JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, 33:1 (2022) 11-26. <https://doi.org/10.1007/s10854-021-07144-2>

Scientific Referees

- MATERIALS LETTERS SCI Kapsamındaki Dergi, Ocak 2022
- INTERNATIONAL JOURNAL OF METALCASTING SCI Kapsamındaki Dergi, Mart 2022
- MATERIALS SCIENCE in SEMICONDUCTOR PROCESSING-Aralık 2021
- JOURNAL OF ALLOYS AND COMPOUNDS, SCI Kapsamındaki Dergi, Eylül 2020
- INTERMETALLICS, SCI Kapsamındaki Dergi, Eylül 2020
- PHILOSOPHICAL MAGAZINE, SCI Kapsamındaki Dergi, Şubat 2020
- PHASE TRANSITIONS, SCI Kapsamındaki Dergi, Ocak 2020



AERONAUTICAL ENGINEERING



Prof. Dr. Abdurrahman HACIOĞLU

Background

Prof. Dr. Abdurrahman Hacıoğlu completed his undergraduate education at the Department of Aeronautical Engineering at Istanbul Technical University in 1991, his master's degree at the Department of Aerospace Engineering at Middle East Technical University in 1997, and his doctorate at the Department of Aeronautical Engineering at Istanbul Technical University in 2003.

Contact

 ahacioglu@gelisim.edu.tr

Research Areas

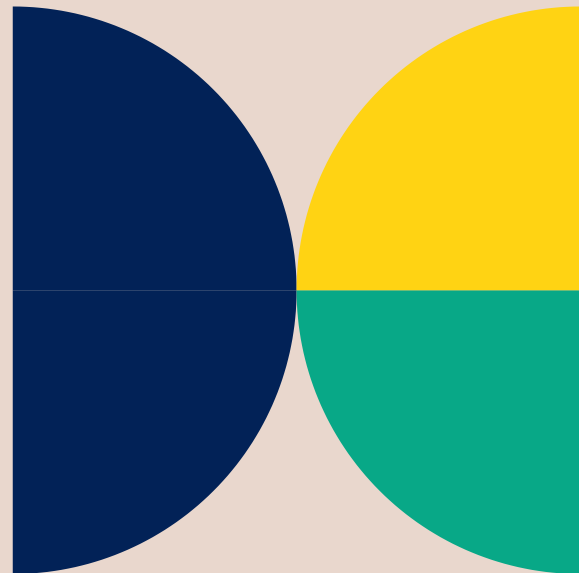
Unmanned Aerial Vehicle

Material Science

Expertise

Aerospace Engineering

Flight Dynamics and Control



AERONAUTICAL ENGINEERING



Prof. Dr.

Ahmet Cihat BAYTAŞ

Background

Prof. Dr. Ahmet Cihat BAYTAŞ received his undergraduate degree from Istanbul State Academy of Engineering and Architecture Mechanical Engineering Department in 1981, his master's degree from Boğaziçi University Department of Physics in 1984 and his doctorate degree from İstanbul Technical University, Nuclear Energy Institute in 1989.

Prof. Dr. A. Cihat Baytaş gives lectures on Heat Transfer, Fluid Mechanics and Thermodynamics as a faculty member in the Department of Aeronautical Engineering (Turkish). He has researches on heat and mass transfer in porous media, Computational Fluid Dynamics and the study of particle motions in a flow medium. A recent area of research is icing on airplanes. Another research topic is numerical studies on the distribution and accumulation of particles in ventilated indoor environments.

Contact

 acbaytas@gelisim.edu.tr

Research Areas

Aircraft Icing

Computational Fluid Dynamics

Convective Heat and Mass Transfer

Porous Media

Expertise

Thermal Sciences

Fluid Mechanics

Thermodynamics

Publications

2021

2022

- Cicek, O and Baytaş, A.C, A numerical investigation of the particle behaviors and entropy generation in mixed convection inside a vented enclosure, International Journal of Thermal Science, Vol. 185, 108058-2023 <https://doi.org/10.1016/j.ijthermalsci.2022.108058>
- Siyahi Hadi and Baytaş, A.C, An adaptive approach for modeling ice accretion on aircraft, Progress in Computational Fluid Dynamics, An International Journal, -2023 DOI: 10.1504/PCFD.2022.10048280 (in Press)
- Çiçek, O. and Baytaş, A.C., Local thermal non-equilibrium conjugate forced convection and entropy generation in an aircraft cabin with air channel partially filled porous insulation, Aircraft Engineering and Aerospace Technology, 2022 Vol. 94 No. 2, pp. 210-225 <https://doi.org/10.1108/AEAT-02-2021-0039>
- T. Ergen, T. Şener, O. Tuncer, A.C. Baytaş, NUMERICAL INVESTIGATION OF NON PREMIXED COMBUSTION INSIDE A THREE LAYERED POROUS BURNER WITH FLAMELET MODEL, Isı Bilimi ve Tekniği Dergisi- Journal of Thermal Science and technology, 41, 1, 63-75, 2021 <https://doi.org/10.47480/isibtbd.979342>
- Çiçek, O. and Baytaş, A.C., Nanofluid jet impingement heating of a cooled surface with a constant heat flux in the presence of porous layer, International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 32 No. 2, pp. 825-849. <https://doi.org/10.1108/HFF-01-2021-0080-2022>

AERONAUTICAL ENGINEERING




Prof. Dr.
Ali KODAL

Background

Prof. Dr. Ali KODAL completed his undergraduate education at Istanbul Technical University, and his graduate and doctoral studies at Michigan University. Aeronautical Engineering (English) Department lecturer Prof. Dr. Ali Kodal's field of study is thermodynamics, fluid mechanics, propulsion systems and turbulence.

Contact

 akodal@gelisim.edu.tr

Research Areas

Turbulence Analysis and
Combustion in Internal Combustion
Engines

Propulsion Systems

Experimental and Numerical
Methods in Fluid Mechanics

Experimental and
Numerical Turbulence
Studies

Expertise

Propulsion Systems

Turbojet

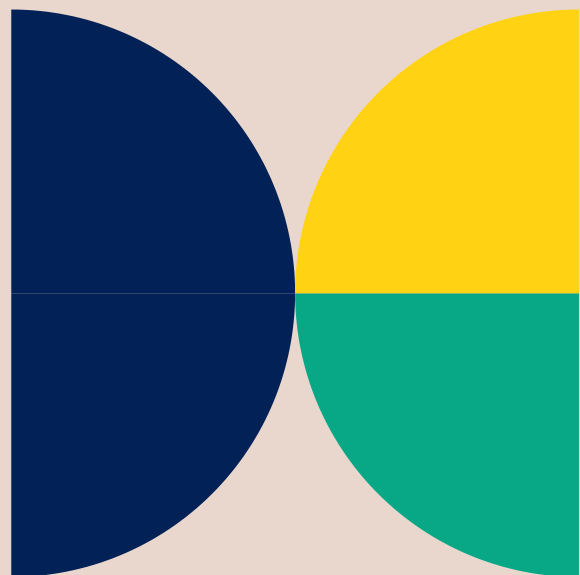
Turbulence Discretization
Techniques

Rockets

Publications

2021

- Fawal S., Kodal A., Overall and component basis performance evaluations for turbojet engines under various optimal operating conditions, Aerospace Science and Technology, 117, 2021.
- Kodal A. I., Kodal A., Comparative performance evaluations of various optimization functions for irreversible Otto cycles, Thermal Science and Engineering Progress, 15, 2020.





AERONAUTICAL ENGINEERING




Prof. Dr. Mahmut Adil YÜKSELEN Background

Prof. Dr. M. Adil Yükselen received his undergraduate degree from İstanbul Technical University Aeronautical Engineering Department in 1974, his master's degree from İstanbul Technical University Aeronautical Engineering Department in 1976 and his doctorate degree from İstanbul Technical University Aeronautical Engineering Department in 1987.

Aeronautical Engineering faculty member Prof. Dr. M. Adil YÜKSELEN's research areas are aerodynamics, wind tunnels, supersonic flows and computational aerodynamics.

Contact

 mayukselen@gelisim.edu.tr

Research Areas

Technical Sciences

Aerospace Engineering

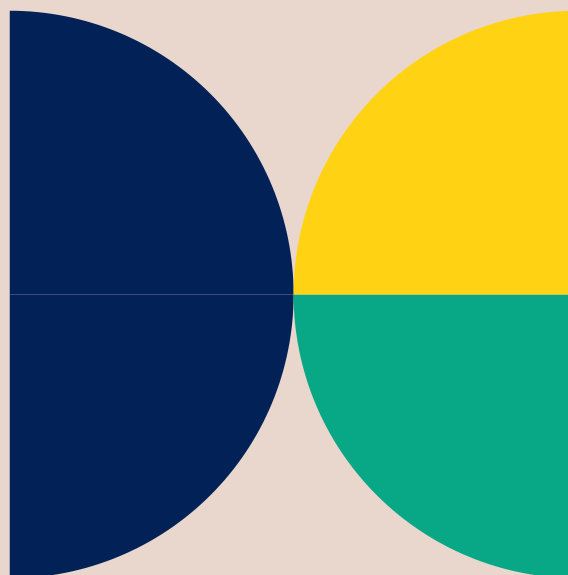
Flight Sciences

Aerodynamics

Expertise

Aerospace Engineering

Aerodynamics



AERONAUTICAL ENGINEERING



Prof. Dr. Oktay ÖZCAN

Background

Prof. Dr. Oktay ÖZCAN received his undergraduate degree from İstanbul Technical University Mechanical Engineering Department in 1975, his master's degree from Boğaziçi University Mechanical Engineering Department in 1977 and his doctorate degree from University of California Mechanical Engineering Department in 1982.

Aeronautical engineering faculty member Prof. Dr. Oktay ÖZCAN's research areas are fluid mechanics, aerodynamics, supersonic shock waves and computational aerodynamics.

Contact

 okozcan@gelisim.edu.tr

Research Areas

Experimental and Computational
Fluid Dynamics

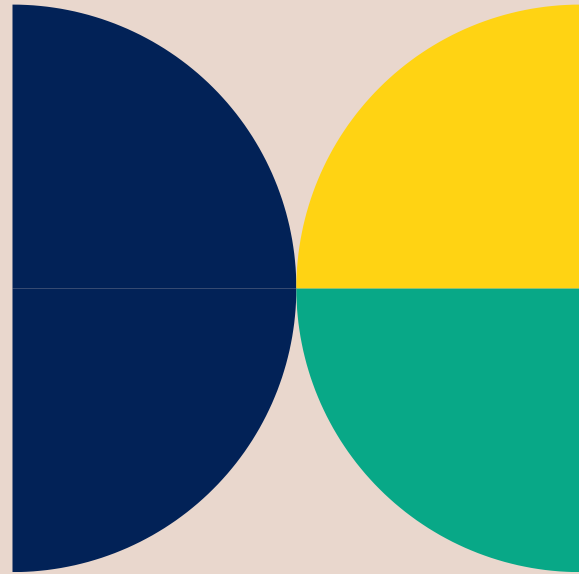
Aerodynamics

Expertise

Thermodynamics

Publications

- 2023
- Kaya, K. and Özcan, O., "Correlations Describing Laminar Hydrodynamic Development in a Circular Pipe," Journal of Fluids Engineering, 15, 051302 (1 to 12), 2023, DOI: 10.1115/1.4056893
 - Yolaçtı, A., Kaya, K. and Özcan, O. "Computational Investigation of Turbulent Shock Wave Boundary Layer Interaction Control via Secondary Recirculation Induced Wall Jet", 34th International Symposium on Shock Waves, Daegu, Korea, 16-21 July, 2023.



AERONAUTICAL ENGINEERING




Prof. Dr. Osman Ergüven VATANDAŞ

Background

Aeronautical Engineering Department lecturer Prof.Dr. Osman Ergüven VATANDAŞ's working subjects were mainly CFD and aerodynamic design and optimization in the early periods. In this context, heuristic optimization methods, especially Genetic Algorithms (GA), later included methods of combining Artificial Neural Network (ANN) and Genetic Algorithm. He took part in a project where some modifications on the 3D aircraft wing were being studied during his master's degree at Ankara Middle East Technical University.

Contact

 oevatandas@gelisim.edu.tr

Research Areas

Aerodynamics

Fluid Dynamics

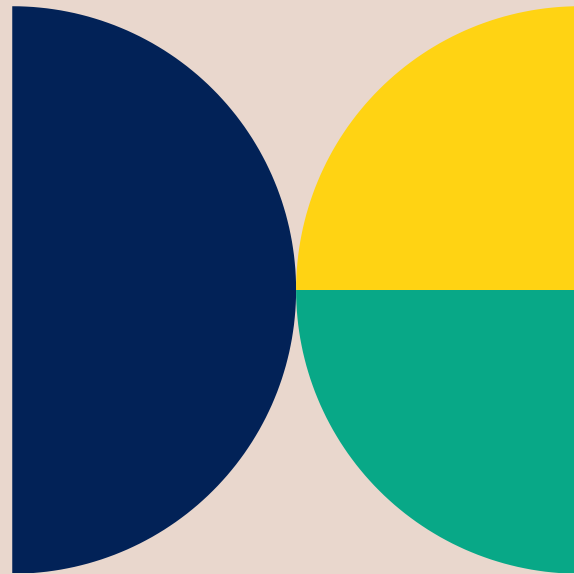
Expertise

Aerospace Engineering

Aerodynamics

Projects

- 2023
- TÜBİTAK 2209 Project: Electric Fan Motor Driven Unmanned Aerial Vehicle with Vertical Takeoff and Landing (Supervisor), 2023
 - Istanbul Gelişim University BAPUM supported project "Modelling of Unmanned Aerial Vehicles in Different Designs (ÖOP-211020-OEV)" (Project Manager), 2022-2023



AERONAUTICAL ENGINEERING




Asst. Prof. Dr. Meltem Uzun

Background

Dr. Meltem Uzun received her undergraduate degree from Dokuz Eylül University in 2011, her graduate degree from Yıldız Technical University in 2014 and her doctorate degree from Yıldız Technical University in 2021. As a faculty member at Istanbul Gelişim University, Department of Aeronautical Engineering, Dr. Uzun teaches Mathematics I, Mathematics II, Differential Equations, Linear Algebra, Probability and Statistics, Discrete Mathematics and Numerical Analysis.

Contact

 meuzun@gelisim.edu.tr

Research Areas

Operator Theory

Finite Difference Method,

Nonlinear Equations

Expertise

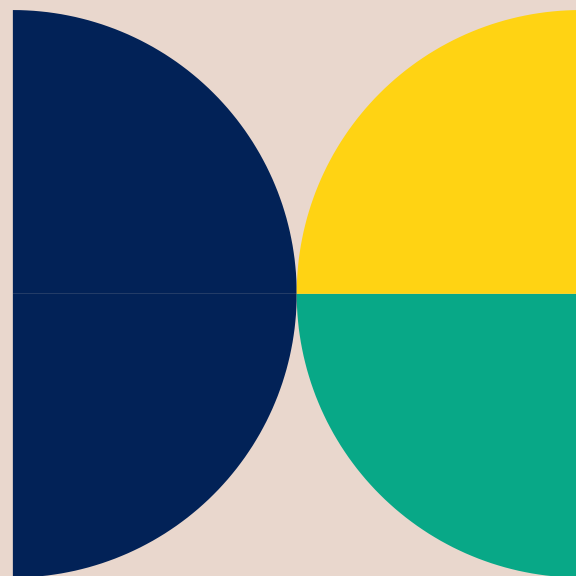
Theory of Partial Differential
Equations

Functional Analysis

Numerical Analysis

Publications

- 2020
- O. Yildirim, M. Uzun (2020). Weak solvability of the unconditionally stable difference scheme for the coupled sine-Gordon system. *Nonlinear Anal. Model. Control*, 25(6), 997-1014.



AERONAUTICAL ENGINEERING




Asst. Prof. Dr. Murat Metehan TÜRKOĞLU

Background

Aeronautical Engineering Faculty Member Murat Metehan Türkoğlu's field of study is High Energy Astrophysics and Theoretical Cosmology and he continues his studies especially on Alternative Gravitation Theories and Neutron stars-Accretion Disc Interactions. Within the scope of his studies, he worked as a researcher in TÜBİTAK supported international scientific research projects with ITU, Sabancı University, Istanbul University, and Goethe Universität Frankfurt

Contact

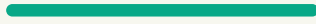
 mmturkoglu@gelisim.edu.tr

Research Areas

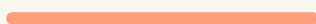
Neutron Star



Black Hole



Mass Transfer Disc Interaction,



Disc Seismology

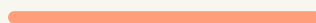


Alternative Gravitation Theories



Expertiese

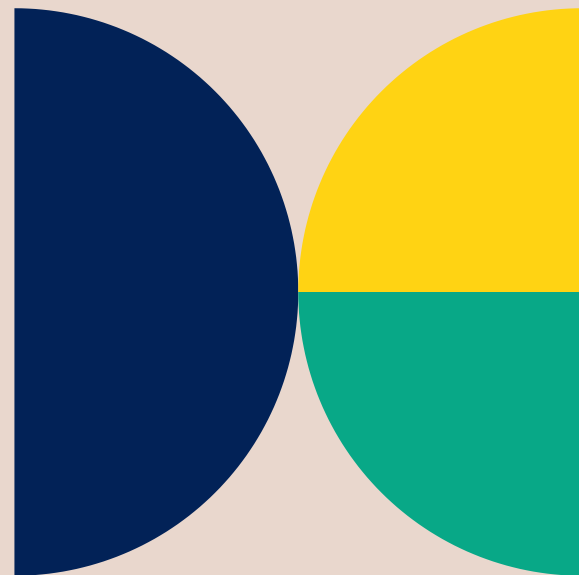
High Energy Astrophysics
and Theory Cosmology



Publications

2021

- On the Magnetic Fields, Beaming Fractions, and Fastness Parameters of Pulsating Ultra-Luminous X-Ray Sources, M.H. Erkut, M.M. Türkoğlu, K.Y. Ekşi, M.A. Alpar, Astrophysical Journal, 2021



AERONAUTICAL ENGINEERING




Asst. Prof. Dr. Samuel MOVEH

Background

Dr. Moveh is an accomplished Assistant Professor with a Bachelor's degree in mechanical engineering and a Master's degree in mechanical production, Samuel's academic journey paved the way for his doctoral degree in autonomous systems for both ground and air vehicles, which he obtained with expertise in control system engineering. With a passion for research and innovation, Samuel has published extensively and contributed to a range of grant projects. His work has been acknowledged and praised by both peers and academic communities. Samuel's dedication to his field has also seen him serve in various academic committees, providing invaluable insight and leadership.

Contact

 samoveh@gelisim.edu.tr

Research Areas

Control Systems

Autonomous Systems

UAV

AI

Expertise

Mechanical Control Systems

Publications

2023

- **Samuel Moveh**, Khalid Yahya, Hani Attar, Ayman Amer, Mahmoud Mohamed, and Tajudeen Adeleke Badmos. 2023. "Evaluating the Performance of Fuzzy-PID Control for Lane Recognition and Lane-Keeping in Vehicle Simulations" Electronics 12, no. 3: 724. <https://doi.org/10.3390/electronics12030724> Published

2022

- Aliero, Muhammad S., Muhammad F. Pasha, David T. Smith, Imran Ghani, Muhammad Asif, Seung Ryul Jeong, and **Moveh Samuel**. 2022. "Non-Intrusive Room Occupancy Prediction Performance Analysis Using Different Machine Learning Techniques" Energies 15, no. 23: 9231. <https://doi.org/10.3390/en15239231>
- O. P. Agboola, **S. Moveh**, K. Yahya, H. Attar and A. Amer, "The Role of Smart Environment Initiatives on Environmental Degradation: Consolidating the Resilient Built Landscape," 2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI), Zarqa, Jordan, 2022, pp. 1-5, doi: 10.1109/EICEEAI56378.2022.10050481.

AERONAUTICAL ENGINEERING

Asst. Prof. Dr. Samuel MOVEH

International Conferences

- 2022
- **Samuel Moveh** 1st International Conference on Innovative Academic Studies on 10-13 September in 2022 at Konya/Turkey. Enhancing Nigeria's Built Environmental Sustainability Drive: The Contributions of Smart city and Building Resilience
 - 1st International Conference on Innovative Academic Studies on 10-13 September in 2022 at Konya/Turkey. Enhancing Nigeria's Built Environmental Sustainability Drive: The Contributions of Smart city and Building Resilience. Design and Fabrication of a Multi-Color Dot Printer Safar Pourabbas, **Moveh Samuel**
 - 2nd International Conference on Engineering and Applied Natural Sciences (ICEANS 2022) 15-18 October, 2022. Development of an Educational Aerospace Engineering Flight Simulator Avci M. Cem, **Moveh Samuel**, Coskun Ali Can
- 2023
- Organizing chair for Call For Paper | International Conference On Recent Studies (icrs2023.net)



Research Grants

2022

Najran University Deanship of Scientific Research Research Projects for Academic Year 2022/2023		جامعة نجران عمادة البحث العلمي المشاريع البحثية للعام الدراسي 1444/1445
Binding commitment تعهد ملزم NAJRAN UNIVERSITY		
Research Title:	AI Human tracking for Energy Efficiency and Low Carbon Emission Buildings in Saudi Arabia	عنوان البحث
Primary Research Name:	Badr Saad Alotabi	اسم الباحث الرئيسي
CO-PI Name:	Mohammed Awad Abuhussain	اسم الباحث المشارك الأول
CO-PI Name:	---	اسم الباحث المشارك الثاني
University Nonmember CO-PI:	Samuel Moveh	اسماء الباحثين المشاركين من خارج الجامعة
Research Code:	NU/DRP/SERC/12/1	رقم البحث

AERONAUTICAL ENGINEERING




Asst. Prof. Dr. Sevgihan Yıldız BİRCAN

Background

Asst. Prof. Dr. Sevgihan Yıldız Bircan's field of study is alternative energy sources and biofuels, and she started her studies on hydrogen production through the hydrothermal gasification method at Nagoya University in Japan in 2009 and completed her doctorate in 2012.

In the 2006-2007 academic year, she conducted experimental studies on the effect of design and material selection on the airflow characteristics of automobile radiators at the Von Karman Institute in Belgium. Dr. Bircan teaches Composite Materials in Aeronautics and Materials and Production Methods in Aeronautics.

Contact

 sevyildiz@gelisim.edu.tr

Research Areas

Mechanical Engineering,

Energy

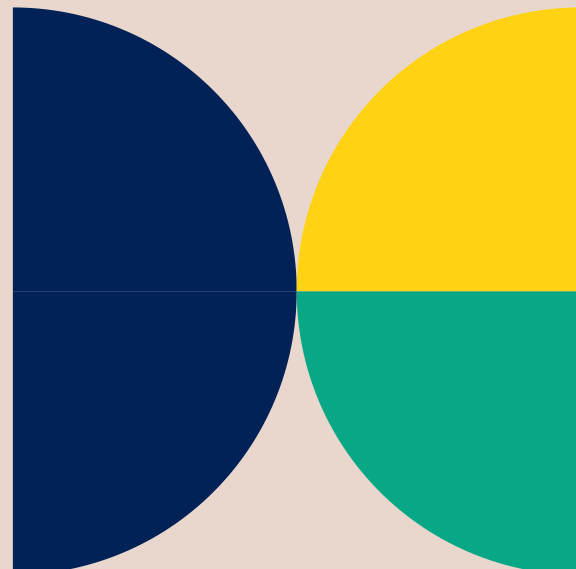
Expertiese

Mechanical Engineering,

Energy

Memberships to Scientific and Professional Organizations

- Editorial Team Member, •Modern Applied Science
ISSN 1913-1844 (Print) ISSN 1913-1852, (Online)
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Education
- Editorial Team Member • International Journal of
Analytical Mass Spectrometry and Chromatography,
ISSN Print: 2332-1768, ISSN Online: 2332-1776



AERONAUTICAL ENGINEERING



Res. Asst. Mustafa Cem AVCI

Background

Res. Asst. M. Cem AVCI graduated from Gazi University Mechanical Engineering Department in 2020. Between 2020-2022, he worked at Titra Technology on UAV technologies, then worked at Sense4Motion on metaverse and 3d motion capture technologies. He has been working at Istanbul Gelişim University since July 2022.

Contact

 mcavci@gelisim.edu.tr

Research Areas

Motion Capture

Control Systems

Wireless Teleoperating Systems

Metaverse

Expertise

System Dynamics and Control

Mechanical Engineering

International Conferences

2022 2nd International Conference on Engineering and Applied Natural Sciences (ICEANS 2022), 15-18 October, 2022. Development of an Educational Aerospace Engineering Flight Simulator **Avci M. Cem**, Moveh Samuel, Coskun Ali Can.

Certificates

2020 Open Source Software Development, Linux and Git, **The Linux Foundation**
(<https://coursera.org/share/18bc00dc00f0bc07bce8dd3b8c5c9841>)

Sensors and Sensor Circuit Design, **University of Colorado Boulder**
(<https://coursera.org/share/7ed3d52660b5a028ec0a72cb202d8925>)

Embedded Software and Hardware Architecture, **University of Colorado Boulder**
(<https://coursera.org/share/b0fd5570760057f9d866c590f1dad0b9>)

Programming Fundamentals, **Duke University**
(<https://coursera.org/share/e735a15e050a21d80f4b17be37823b40>)

Modern Robotics, Foundations of Robot Motion, **Northwestern University**
(<https://coursera.org/share/a4d54f616986e6b1a02b45957b6d2653>)

Object-Oriented Data Structures in C++, **University of Illinois at Urbana-Champaign**
<https://coursera.org/share/28935e8e1f2946ef115a37be755156cb>

Python Programming, **Google**
<https://coursera.org/share/03b65b30551ab80409fed877afc8d731>

Introduction to Artificial Intelligence (AI), **IBM Skills Network**
<https://coursera.org/share/b6933e43e20157bfea4a9d4730bba6f2>

C Programming Fundamentals, **University of California, Santa Cruz**
<https://coursera.org/share/d36ebd7529eeca4bf9dc1e8dccb2e465>



AERONAUTICAL ENGINEERING

Res. Asst. Mustafa Cem AVCI

Projects

2022 Open Source Mocap system in 3D Animation

https://www.linkedin.com/posts/mcemavci_animation-3d-blender-activity-7013416911258431488-i9Ud?utm_source=share&utm_medium=member_desktop

2020 Kasirga Amphibious UAV - Ground Control Station

https://www.linkedin.com/posts/mcemavci_python-activity-6737021489410793473-EWPE?utm_source=share&utm_medium=member_desktop

Kasirga Amphibious UAV - Design Contest with Xsens Products 2020

https://www.linkedin.com/posts/imca-electronicsandmechanics_i%CC%87mca-ve-xsens-i%C5%9F-birli%C4%9Fi-ile-organize-edilen-activity-6738070047324958720-eRNV?utm_source=share&utm_medium=member_desktop

UnoJoy - Car Steering Wheel Setup

https://www.linkedin.com/posts/mcemavci_arduino-game-controller-steering-wheel-activity-6807746590829244416-hLdt?utm_source=share&utm_medium=member_desktop

AERONAUTICAL ENGINEERING



Res. Asst. Özlem YALÇIN

Background

Yalcin (MSc.) received her undergraduate degree from the Mechanical Engineering Department of Hitit University in 2014 and his master's degree from the Mechanical Engineering Department of Istanbul University in 2023. She has been working as a Research Assistant in the Department of Aeronautical Engineering at Istanbul Gelişim University since 2020.

Contact

 oyalcin@gelisim.edu.tr

Research Areas

Thermodynamics

Heat Transfer

Fluid Mechanics

CFD

Expertiese

Heat Transfer

CFD

Projects

2021 UAV modeling with various designs
2022 İGÜ BAP 2021-2023
2023

Certificates

2021 ISO 9001 Master - Quality Certification Turkish Standards Institution
2022 May 2022
2023 Presentation Design and Data Visualization Proludus Release April 2022
InCites B/A & Journal Citation Reports & Essential Science June 2021
IHA-1 SPORTIF/AMATOR LICENSE TYPE PILOT SHGM / General Directorate of Civil Aviation May 2021
Course-Research and Publication Ethics: Module 5-Conflicts of Interest and Intellectual Property Services Released March 2021
Academic Publishing & Enhancing Research Effectiveness Springer Nature Group November 2020
Discover of International Collaboration and Funding Opportunities// TUBITAK ULAKBIM EKUAL Elsevier May 2020
Increasing Scientific Visibility and Impact Elsevier Apr 2020
Occupational Health and Safety Certificatelstanbul Gelisim University May 2020 - May 2023



ISTANBUL
GELISIM
UNIVERSITY

research
HIGHLIGHTS



OUR STUDENTS



Our Students



Hüseyin Furkan Çelik

Aeronautical Engineering Student

The fact that my undergraduate education at Istanbul Gelişim University Aeronautical Engineering was focused on engineering was very useful for me to use the knowledge I gained in my interdisciplinary studies, in other words, in the process of integrating knowledge into different fields. Thanks to the opportunities provided by Gelişim University and my valuable professors, I had the opportunity to realize various projects. I did my first compulsory internship at Ayjet Flight School at Hazerfen Airport and continued my internship for a while voluntarily. Later, I did my internship at the 2nd Air Maintenance Factory Directorate of ASFAT located at the 12th Air Transport Main Base. Thanks to this internship, I had the opportunity to get to know military aircraft closely. In the last year of my undergraduate education, I work as a part-time researcher at Istanbul Gelişim University Technology Transfer Office.

Our Students



Ece Kuzu

Aeronautical Engineering Student

I have always been interested in airplanes since I was a child. I've always wondered what's behind their systems and the ability of huge heavy structures to stay in the air. As Atatürk said, "The future is in the skies!" I always refer to the word. For this reason, I decided to major in aeronautical engineering. The reason why I chose Istanbul Gelişim University as an education is that it is the most internationally accredited university in Turkey with its international accreditations, it is recognized by aviation companies and the faculty of the school in the aircraft engineering department is very good. I took part in many projects in line with the knowledge I gained from my valuable professors at Istanbul Gelişim University. Istanbul Gelişim University applied for a patent for my project, which was in the Teknofest finale. I did my first compulsory internship at Ayjet Flight School at Hezarfen Airport, and worked as a part-time researcher at Istanbul Gelişim University Technology Transfer Office. I applied to Baykar Makine Sanayi Ticaret Ve Sanayi A.Ş. for the 2023 spring semester internship and I won. I am still continuing my internship at Baykar Makine Sanayi Ticaret Ve Sanayi A.Ş.

Our Students



Ayberk Ermutuř

Aeronautical Engineering Student

Both the Aeronautical Engineering Department and Istanbul Gelisim University are becoming more dynamic with their solution-oriented approaches and faculty members joining the university every year. In the past 3 years, I took part in rocket and UAV competitions. In addition to the projects in my continuing education life, I carry out my internship in the defense industry. I have a very clear grasp of how knowledge can be learned and how it can equip us from our developmental age to the time of employment. While I have a very clear understanding of how to do information research and engineering solutions, I also gained many successes and reputation in the fields I work in the field of design with my drawings. I would like to thank all the employees of IGU Aircraft Engineering for their contributions to my success and achievement of my goals.



**FACULTY OF ENGINEERING AND
ARCHITECTURE
SOFTWARE ENGINEERING**

SOFTWARE ENGINEERING

Dr. Serkan GÖNEN Head of Software Engineering Department



Dear readers,

In this issue, we are proud to share with you the story of the Software Engineering Department, which was established in 2021 and achieved significant success in the software industry in a short time.

At the time the department was founded, the software industry had a rapidly growing and changing structure. For this reason, the leaders of the department adopted a pioneering and innovative educational approach and aimed to provide solid foundations and up-to-date information to future software engineers. Thanks to this vision, the department was able to attract successful students and faculty.

The department has developed its students' ability to find solutions to real-world problems by providing theoretical knowledge as well as practical training opportunities. In addition, it aimed to increase students' internship and job opportunities by giving importance to cooperation with the industry.

The Software Engineering Department has achieved significant success since its establishment. He carried out pioneering research in fields such as artificial intelligence, data science, mobile and web application development and took part in international projects. Many awards and patents were obtained with the successful work done by students and faculty members.

In this issue, we have prepared a special file to convey the success, projects and future vision of the department from past to present. In addition, interviews with successful graduates of the department and sector analyzes are also included in our magazine.

While sharing the rapid rise of the Software Engineering Department with you, we will continue our work without slowing down in order to continue to offer you similar successes and innovations in the future.

We wish you pleasant reading

Dr. Serkan Gonen

SOFTWARE ENGINEERING

GENERAL INFORMATION

Software engineering; It is a department that provides theoretical and practical education and training on computer software systems and applications, which are indispensable for the information age. In the department where basic mathematics courses, computer software system analysis, internet applications, mobile applications and cyber security are offered, graduates who can work in companies that design, develop and market software systems in the public and private sectors, industry are given. Able to theoretically analyze, evaluate and interpret the subjects in the field of Computer Science, to apply scientific research methods and information technology applications effectively in their studies, to carry out adequate and competent studies in line with the theoretical knowledge gained in the field of Computer Science, To train students who can develop applications. Our mission is to bring in individuals who can express their ideas in at least one foreign language in written and orally, are successful in problem solving, time management, resource management, work discipline and communication skills, have the ability to work individually, and have the ability to work in a team and take responsibility.



SOFTWARE ENGINEERING



PROGRAM EDUCATION GOALS

- 1. Applies disciplined reasoning, critical thinking and applied skills to identify, analyze and solve problems.**
- 2. Communicate effectively orally and in writing to express technical information, ideas and suggestions.**
- 3. Consider the professional, ethical and social responsibility of engineering technology practices**
- 4. Act effectively, think independently and work collaboratively in a team environment in a membership or leadership role.**
- 5. Actively participates in professional development, including continuous self-development and lifelong learning.**

SOFTWARE ENGINEERING

MISSION

In Software Engineering, where rapidly advancing technology and developments in the field of information technologies are followed closely, the target is; to educate students with the knowledge and equipment to adapt to developments in this field after graduation.



VISION

To be one of the leading departments in the fields of Computer and related engineering with its contributions to science and technology, competitive at national and international level.

OUR ACADEMIC STAFF



Dr. Serkan GÖNEN
Ph.D. Gazi University



Dr. Abbas AKKASI
Ph.D. Eastern Meditterrian
University



Assoc. Prof. Dr.
Elham PASHAEI
Ph.D. Yıldız Technical University



Dr. Neslihan ÖZDEMİR
Ph.D. Yıldız Technical University



Dr. Nihal ALTUNTAŞ
Ph.D. Yıldız Technical University

SOFTWARE ENGINEERING

UNDERGRADUATE PROGRAM

Software Engineering Department provides education in Turkish. Our curriculum has been prepared in accordance with the ECTS system and consists of 8 semesters. The curriculum includes basic science courses, departmental courses, departmental elective courses, social elective courses and non-departmental elective courses, as well as 2 compulsory summer internships. Along with the compulsory courses, the students are provided with basic information about the profession, while the elective courses are aimed at taking the courses related to the interests of the students.

Istanbul Gelisim University Software Engineering Department received its first students in the 2021-2022 academic year.



**ACADEMIC CV
AND
SCIENTIFIC STUDIES**

SOFTWARE ENGINEERING



Dr. Serkan GÖNEN

Background

In 2006, he completed his master's degree in the field of tactical field communication systems at the Turkish Military Academy. Gazi University Institute of Science and Technology completed his PhD in Information Security in 2018. she. She is currently the Head of the Software Engineering Department at Istanbul Gelişim University. Current research interests include engineering software design, Web technology and applications, and critical infrastructure.

Communication

 sgonen@gelisim.edu.tr

Research Areas:

Cyber Security

IT Ethics and Law

Computer Networks

A.I.

Areas of Expertise:

Cyber Security

Software Engineering

Publications

2022

- Gönen, S., Barışkan, M. A., Karacayılmaz, G., Alhan, B., YILMAZ, E. N., ARTUNER, H.,... Sindiren, E.(2022). A Novel Approach to Prevention of Hello Flood Attack in IoT Using Machine Learning Algorithm Makine Öğrenmesi Algoritmasını Kullanarak IoT'de Hello Flood Saldırısının Önlenmesine Yönelik Yeni Bir Yaklaşım. El-Cezeri Journal of Science and Engineering , vol.9, no.4, 1529-1541.
- GÖNEN, S., BARIŞKAN, M. A., Karacayılmaz, G., ALHAN, B., YILMAZ, E. N., & ARTUNER, H., (2022). Gender Detection Via Voice Using Artificial Intelligence Algorithms. Gazi Mühendislik Bilimleri Dergisi , vol.8, no.3, 567-575.
- Kocaman, Y., Gönen, S., Barışkan, M. A., Karacayılmaz, G., & YILMAZ, E. N., (2022). A novel approach to continuous CVE analysis on enterprise operating systems for system vulnerability assessment.International Journal of Information Technology (Singapore) , vol.14, no.3, 1433-1443.
- Korkmaz, T., Çetinkaya, A., Aydın, H., & Barışkan, M. A., (2021). Analysis of whether news on the Internet is real or fake by using deep learning methods and the TF-IDF algorithm. International Advanced Researches and Engineering Journal , vol.5, no.1, 31-41.
- TAŞÇI, H., GÖNEN, S., BARIŞKAN, M. A., KARACAYILMAZ, G., ALHAN, B., & YILMAZ, E. N., (2021). Password Attack Analysis Over Honeypot Using Machine Learning Password Attack Analysis. Turkish Journal of Mathematics and Computer Science , vol.13, no.2, 388-402.
- Alhan, B., Gönen, S., Karacayılmaz, G., Barışkan, M. A., & YILMAZ, E. N., (2022). Real-Time Cyber Attack Detection Over HoneyPi Using Machine Learning. Tehnicki Vjesnik , vol.29, no.4, 1394-1401.

Projects

Li-Fi Sistemlerinde Performans Analizi

Coordinator: Indrit MYDERRIZZI Researcher: Serkan GÖNEN ,Mehmet Ali BARIŞKAN, Ahmet F. YILMAZ

Istanbul Gelisim University Scientific Research Projects (İGÜ-BAP), Higher Education Institutions Supported Project

Li-Fi Sistemlerinde Siber Güvenlik Sistemleri

Yürütücü: Sekan Gönen Araştırmacı: Indrit MYDERRIZZI,Mehmet Ali BARIŞKAN, Ahmet F. YILMAZ

Istanbul Gelisim University Scientific Research Projects (İGÜ-BAP), Higher Education Institutions Supported Project

SOFTWARE ENGINEERING



Dr. Abbas AKKASI

Background

I did my undergraduate education in software engineering at Tabriz University (PNU). Then I completed my master's degree again by working in the field of IT architecture in software engineering at Islamic Azad University (Tehran/Iran). I got my PhD in Computer Science from Eastern Mediterranean University in Cyprus. I also did two postdocs in different fields of data science at the University of Zagreb/Croatia and at KULeuven in Belgium. My current research interests include machine learning, deep learning, Natural Language Processing and reinforcement learning.

Communication

 aakkasi@gelisim.edu.tr

Research Areas:

A.I

Image Processing

Graph Theory

Data Structures

Areas of Expertise:

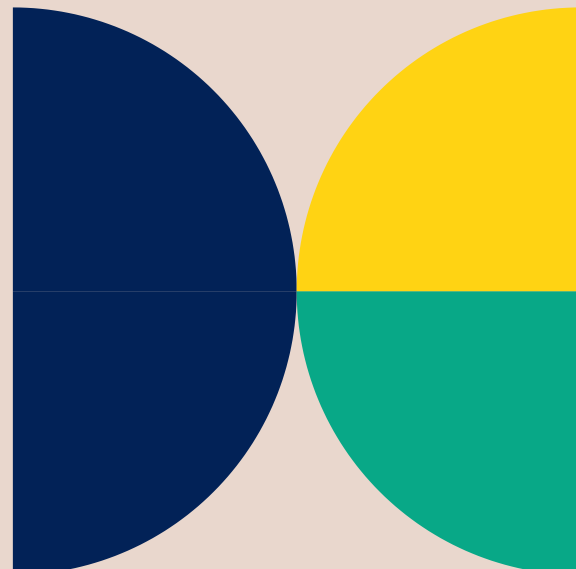
A.I.

Software Engineering

Publications

2022

- Akkasi, A. (2022, October). Multi perspective scientific document summarization with graph attention networks (gats). In Proceedings of the Third Workshop on Scholarly Document Processing (pp. 268-272).



SOFTWARE ENGINEERING




Assoc. Prof. Dr. Elham PASHAEI

Background

As a lecturer in the Department of Computer Engineering, he teaches Computer programming I and II, Data structures, Machine Learning, Artificial Neural Networks.

Communication

 epashaei@gelisim.edu.tr

Research Areas:

A.I.

Data Mining

Areas of Expertise:

Data Mining

Software Engineering

Publications

2022

- Mutation-based Binary Aquila optimizer for gene selection in cancer classification. *Computational Biology and Chemistry*, 101, 1-16., Doi: 10.1016/j.compbiolchem, 2022 (SCIE-Q2)
- Hybrid binary arithmetic optimization algorithm with simulated annealing for feature selection in high-dimensional biomedical data. *The Journal of Supercomputing*, 78(13), 15598-15637., Doi: 10.1007/s11227-022-04507-2. 2022 (SCIE-Q3)
- An efficient binary chimp optimization algorithm for feature selection in biomedical data classification. (2022) *Neural Computing and Applications*, 34(8), 6427-6451., Doi: 10.1007/s00521-021-06775-0 (SCIE-Q2)
- Hybrid Hypercube Optimization Search Algorithm and Multilayer Perceptron Neural Network for Medical Data Classification. *Computational Intelligence and Neuroscience*, 2022, 1-16., Doi: 10.1155/2022/1612468 (SCIE-Q1)

SOFTWARE ENGINEERING



Dr. Neslihan ÖZDEMİR

Background

Dr. Neslihan ÖZDEMİR received her Ph.D. from Yıldız Technical University, Department of Mathematics Engineering in 2019. Since 2021, he has been teaching Mathematics I, Mathematics II, Linear Algebra, Numerical Analysis and Differential Equations at the Faculty of Engineering and Architecture as a lecturer at Istanbul Gelişim University Software Engineering Department.

Communication

✉ nozdemir@gelisim.edu.tr

Research Areas:

Mathematics

Areas of Expertise:

Mathematics

Software Engineering

Publications

- 2022
- Optical solitons and other solutions to the Hirota-Maccari system with conformable, M-truncated and beta derivatives Modern Physics Letters B Doi Numarası: 10.1142/S02179849215062591 Scopus ID: 85129088176
 - Novel soliton solutions of Sasa-Satsuma model with local derivative via an analytical technique Journal of Laser Applications Doi Numarası: 10.2351/7.0000623 Scopus ID: 85130097476
 - Perturbation of dispersive optical solitons with Schrödinger-Hirota equation with Kerr law and spatio-temporal dispersion Optik Doi Numarası: 10.1016/j.ijleo.2022.169545 Scopus ID: 85133413571
 - Two Analytical Schemes for the Optical Soliton Solution of the (2 + 1) Hirota-Maccari System Observed in Single-Mode Fibers Univers Doi Numarası: 10.3390/universe8110584 Scopus ID: 85148246787

Projects

- 2022
- **Bileşenleri Dual-Genelleştirilmiş Kompleks Leonardo Sayıları olan Dual Kuaterniyonların Araştırılması**
Coordinator: Yılmaz Ç. Y. Advisor: Şentürk G. Y. TÜBİTAK 2209-A University Students Research Projects Support Program
 - **Dual-Genelleştirilmiş Kompleks Katsayılı Matrisler**
Coordinator: Gürses N.. Researcher: Şentürk G. Y., Yıldız Technical University Scientific Research Projects (YTÜ-BAP), Higher Education Institutions Supported Project
 - **Hiperbolik-Genelleştirilmiş Kompleks Katsayılı Fibonacci-Lucas Sayıları ve Kuaterniyonlar Teorisi**
Coordinator: Şentürk G. Y., Researcher: Gürses N..
Istanbul Gelisim University Scientific Research Projects (İGÜ-BAP), Higher Education Institutions Supported Project

SOFTWARE ENGINEERING




Dr. Nihal ALTUNTAŞ

Background

Nihal ALTUNTAŞ completed her PhD in Computer Engineering at Yıldız Technical University in January 2020. During her doctorate, she worked as a Research Assistant at Yıldız Technical University, Faculty of Electrical and Electronics, Department of Computer Engineering and continued her academic studies within the Probabilistic Robotics research group. After his doctorate graduation, in June 2020, Dr. Instructor Nihal Altuntaş, who started his career as a member of the university, continues his academic studies as the vice director of the Graduate Education Institute and the vice president of the Software Engineering department at the same institution.

Communication

 naltuntas@gelisim.edu.tr

Research Areas:

Machine Learning

Optimization Algorithms

Areas of Expertise:

Logic Circuits

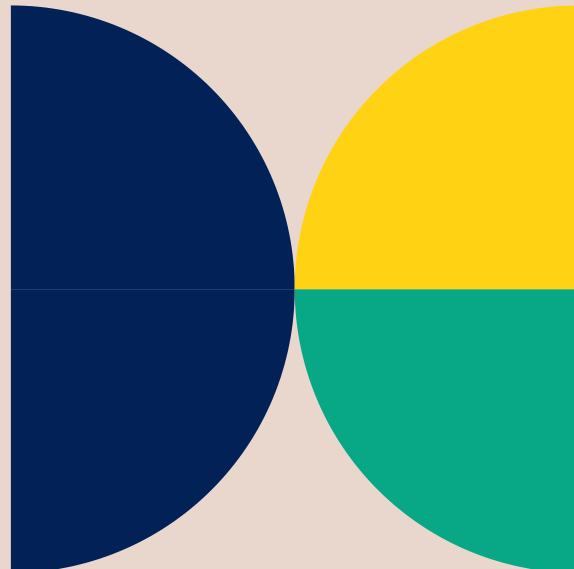
Robotics

Software Engineering

Projects

2022

- İşletmelerde Yapay Zeka ve Dijital Dönüşüm Okuryazarlığı Eğitimi, Coordinator, TÜBİTAK
- Küçük Buluşlar Büyük Dünyalar Bilim Şenliği-2, Speaker, TÜBİTAK



EVENTS



Panel Event "Bilisim@Gelisim'22"
dated 23.05.2022

Zero-Advanced CTF Training dated 26.03.2023

CTF Eğitim Serisi

-Her Hafta-

IGU.SIBER

KONU BAŞLIKLARI

- ✓ Sıfırdan İleriye CTF Eğitimi

Başlangıç

26.03.2023

15.00



MEHMET DEMİR
IGU.SIBER Yönetim Kurulu Üyesi



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and Architecture



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GELISIM
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research
HIGHLIGHTS



Cihangir Mah.
Petrol Ofisi Cad. NO:3-5 Gelişim
Tower Avcılar/İSTANBUL



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