



# BULLETIN

MAY 2024



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### What you will read in this issue

News from Faculty

Actuel Topics in Engineering and Architecture

Academic and Scientific Activities

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# **INDUSTRIAL ENGINEERING**

#### Leadership and Entrepreneurship Summit was held on May 3, 2024



Industrial Engineering Club hosted the Leadership and Entrepreneurship Summit on Friday, May 3, 2024. At the fourth event, leading experts in the industry gave inspiring speeches on entrepreneurship and leadership, shared their experiences and gave guiding speeches to the students. In addition to all these, an interactive event was organized by offering interactive sessions, raffles and networking opportunities.

HENKEL Consumer brands Brand Manager Kuzey KUTLU, EVIDEA Supply Chain Manager Orhan TAŞDEMİR, AUDI TURKEY After-Sales Services Manager Ercan ALPAY, Turkish National Weightlifters

Burcu ALICI-Duygu ALICI shared her knowledge and experiences with our students at the Leadership and Entrepreneurship Summit.

#### Ergonomics Track was organized as part of Open Day on May 15, 2024.

An Ergonomics Track was organized by the Department of Industrial Engineering within the scope of Open Day 2024, organized by the Faculty of Engineering and Architecture for high school students on May 15, 2024. Students had a fun time on the track and learned about subjects such as time study, work study and ergonomics taught in Industrial Engineering.





# News From The Faculty MAY 2024

# **INDUSTRIAL ENGINEERING**

#### Gelişim Zirvesi was held on 15-16 May 2024

An event was held jointly by various clubs of Istanbul Gelişim University on 15-16 May 2024. Industrial Engineering Club, Method Club, Architecture and Design Club, Digital Entrepreneurship and e-Commerce Club, Cyber Security Club and Civil Engineering Club came together and aimed to offer a

rich program to the participants.

During the event, many experienced names in the industry met with the participants and shared their knowledge and experiences in their fields.

Leading names of the industry guided our students with their inspiring speeches. This event contributed to the personal and professional development of the students by providing the participants with a productive environment where experts from different fields came together and shared knowledge and experience.









# News From The Faculty MAY 2024

# INDUSTRIAL ENGINEERING

Excel-ERP Training was Held through the Industrial Engineering Club on May 24, 2024

Excel-ERP Training, organized by the Industrial Engineering Club and open to all students of the Faculty of Engineering and Architecture, was held on May 24, 2024.

In the training, the topics "Pivot table applications in Excel" and "ERP-Excel data transfer" were covered by Senior ERP Specialist Batuhan YILMAZ.









# **INDUSTRIAL ENGINEERING**

### Assistant Professor Mert Yildirim attended the "Sustainability Summit 2024" event as an invitee



The Sustainability Summit 2024, organized by Harvard Business Review Türkiye, was held on May 21-22, 2024, under the theme "Time to Show Real Value.'

Assistant Professor Mert Yildirim from Istanbul Gelisim University, Department of Industrial Engineering, attended the event at the invitation of Harvard Business Review Türkiye, which was attended by valuable speakers and participants.

Within the scope of the event, strategies, road maps, and practices for realizing the potential of sustainability were discussed.

### Working in Industrial Engineering Department Ass.Prof. Umut Hulusi İnan attended the 10th Family Business Congress



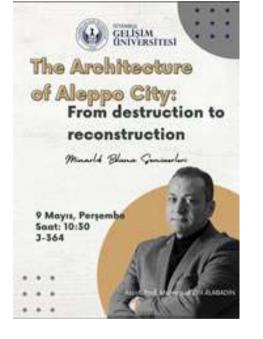
Working in Industrial Engineering Department Ass.Prof. Umut Hulusi İnan attended the 10th Family Business Congress organized bv Istanbul Kültür University on 15-16 May 2024. Ass.Prof. Umut Hulusi İnan presented his paper on "Prioritization of sustainability criteria in family businesses with multi-criteria decisionmaking methods" within the scope of the congress.



News From The Faculty

# ARCHITECTURE

At the invitation of the Faculty of Engineering and Architecture, a conference titled "The Architecture of Aleppo City: From Destruction to Reconstruction" was held by Dr. Mahmoud ZIN ALABADIN on May 9, 2024. At the conference, first the history of the city of Aleppo and its development were explained. The architectural features of the most important historical monuments in the city were explained with photographs and architectural drawings. Damage assessment of works damaged by the war and especially the project called "Aleppo Yesterday Today Tomorrow" were also explained. At the end of the conference, the speaker was given a plague by the Head of the Department of Architecture, Assoc. Prof. İlke CİRİTCİ.









# ARCHITECTURE

Department of Architecture Faculty Members Prof. Dr. Mehmet Sener Küçükdoğu, Assist. Prof. Semih Göksel Yıldırım and Architect Leman Akman participated in the 4th National Congress on Building Physics and Environmental Control held at ITU Faculty of Architecture Taşkışla on May 2-3, 2024 with their papers



Prof. Dr. Mehmet Şener Küçükdoğu was the keynote speaker at inaguration and chaired the first session, was presented a plaque for his contribution to the congress by the organizer, the Building Physics Association. In addition, at the closing ceremony, plaques were presented to the congress sponsors by Prof. Dr. Mehmet Sener Küçükdoğu. Semih Göksel Yıldırım, Stuart Werner Baur and Mehmet Şener Küçükdoğu are the "Daylighting authors of the paper titled performance evaluation methods and usage areas in buildings" and the presentation was made by the first author in the second session. The authors of the paper titled "Climate change is not destiny" are Leman Akman and Mehmet Şener Küçükdoğu, and the first author made the presentation in the third session.



# News From The Faculty MAY 2024

# **ARCHITECTURE**



Our graduate student Şevval Serenay Bayram successfully completed thesis her defense titled "Phenomenological readings through the perception of people and space" under the supervision of Assoc. Prof. Türkan Uzun. Head of the Department of Architecture, Assoc. Prof. İlke Ciritci, and Istanbul Rumeli University Dr. Çiğdem Zaăra participated in the jury.

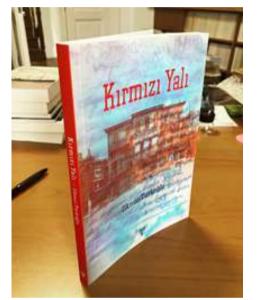
Our master's student Merve Savrunku successfullv completed her thesis defense titled "Performance-Based Facade Systems and Parametric Design Examination in Terms of Daylight" under the supervision of Assoc. Prof. Türkan Uzun. Prof. Dr. Mehmet Şener Küçükdoğu and Fenerbahçe University faculty member Assoc. Prof. Hülva Sovdas Cakır participated in the jury.





# ARCHITECTURE

Among our faculty members, Dr. İlknur Türkoğlu's second book, 'Kırmızı Yalı', took its place on the shelves. A talk and signing day will be held on Saturday, May 25, between 14.00-16.00 at Bakırköy Chamber of Architects.





MIM202 Architectural Design II Jury was held under the coordination of Dr. Erdal Yıldız and the last jury of the term was conducted by Lecturer Ömer Yeşildal and Lecturer Burak Kaan Yılmazsoy.



# News From The Faculty MAY 2024

# ARCHITECTURE



On 15.05.2024, Lecturer Burak Kaan Yılmazsoy, who is part of the Mudurnu Cultural Heritage Area Management Plan team carried out by Bolu Abant İzzet Baysal University, visited Mudurnu Municipality with the Transportation and Infrastructure group and then determined the situation of Mudurnu District with the Municipality teams on site. and analyzed it.

The subject of the 3rd Jury, which was held on 10.05.2024 under the supervision of Lecturer Burak Kaan Yılmazsoy within the scope of MIM108 Introduction to Architectural Design II course, was "Roof design and structure relationship in the archaeological excavation area". In this context, our invited jury member Yılmaz Değer, one of the founders of Aura Istanbul, presented the ruins and then the jury evaluation was made.





News From The Faculty MAY 2024

# **CIVIL ENGINEERING**

#### **Success of Our Department Members**

Istanbul Gelisim University Academic Performance Awards were marked by our department members.

According to the 2023 Academic Performance Evaluation System (APSIS), Istanbul Gelisim University Academic Performance Awards Ceremony was held on May 21, 2024 at 15.00 on May 21, 2024 at Istanbul Gelisim University J Block Mehmet Akif Ersoy Conference Hall to present awards and certificates of achievement to our Academic Staff who ranked in the general ranking and unit-based ranking. We congratulate our Civil Engineering department members Prof. Dr. Nuri KURUOĞLU, Assoc. Prof. Dr. Anıl NİŞ and Assist. Prof. Dr. Metin MEHMETOĞLU, who ranked in the top 5 in the university-wide ranking.

According to the Academic Performance Evaluation System, 6 faculty members from our Civil Engineering Department took their place among the 10 most effective academicians in the Faculty of Engineering and Architecture. Congratulations to our Head of Department Assist. Prof. Dr. Ahmad Reshad NOORI and our faculty members Assist. Prof. Dr. Aylin Ece KAYABEKIR and Assist. Prof. Dr. Mesut BARIS who received their certificates.

We congratulate all our academicians who took part in the award ceremony and heartily congratulate our members of the Department of Civil Engineering for their outstanding achievements.





# **CIVIL ENGINEERING**

A technical trip to Istanbul Beton Hadımköy facility was organized by our Civil Engineering Club. With the field trip organized to Istanbul Beton Hadımköy Concrete Production facilities, our students had the chance to closely follow the processes of concrete production and laboratory studies. We would like to thank Istanbul Beton officials who hosted our students and informed them with their presentations and our department faculty members who participated in the trip with our club.



Pasta Bridge Competition was organized by our Civil Engineering Club in cooperation with Kuzeyboru Company on May 4, 2024. The Pasta Bridge Competition organized by our Civil Engineering Club in cooperation with Kuzeyboru Company was held with the participation of 41 different groups from different universities. In the competition, which witnessed entertaining images, the groups tested the bridges they built with weights in front of the jury. We wish success to all the students who participated in the competition and heartily congratulate the students of our department who completed the competition as 1st, 2nd and 3rd.





# **COMPUTER ENGINEERING**

## **Management Team Change**

Department of Computer Engineering has determined its new management team. Dr. Oğuzhan Öztaş was appointed as the head of the department, while Dr. Tarık Arabacı was appointed as the vice head of the department.



Dr. Öğr. Üyesi Oğuzhan ÖZTAŞ



Dr. Öğr. Üyesi Tarık ARABACI

Dr. Oğuzhan Öztaş, as a name known for his successful work in his academic career and contributions to the department, was deemed worthy of the position of head of the department of computer engineering department. Öztaş has made significant contributions to both students and the academic community in the field of computer engineering and has made a name for himself with various projects and research.

Dr. Tarık Arabacı, who has been appointed as the vice head of department, is another distinguished name known for his scientific research and academic achievements. With his new role, Arabacı will contribute to the more efficient and effective management of the academic and administrative operations within the department.

We wish success to the new management of the department of computer engineering and congratulate them for their outstanding performance in academic studies and education.



# News From The Faculty MAY 2024

# **COMPUTER ENGINEERING**

### **Our Faculty Members Have Been Accepted to the COST Program**

The faculty members of the Computer Engineering Department at Istanbul Gelişim University, Prof. Dr. Abdulsamet HAŞILOĞLU, Dr. Oğuzhan ÖZTAŞ, and Dr. Mustafa SENOL, have been accepted into COST (European Cooperation in Science and Technology), one of Europe's leading science and cooperation programs.

The COST program is a prestigious platform aimed at enhancing the quality of scientific research and promoting collaboration among researchers across Europe. Within the program, Prof. Dr. Abdulsamet HAŞILOĞLU and Dr. Öğr. Üyesi Oğuzhan ÖZTAŞ will participate in the project titled 'A Comprehensive Network Against Brain Cancer,' while Dr. Öğr. Üyesi Mustafa ŞENOL will be involved in the project titled 'Behavioral Next Generation in Wireless Networks for Cvber Security.' Their participation will strengthen international collaborations and contribute to the development of innovative solutions. The acceptance of Prof. Dr. Abdulsamet HAŞILOĞLU, Dr. Oğuzhan ÖZTAŞ, and

Dr. Mustafa SENOL into this program is a testament to our university's success in scientific research and innovation. This significant development will greatly contribute to increasing the visibility of our university on the international stage and enhancing our research capacity.

Congratulations to our faculty members for their significant achievements, and we wish them success in their endeavors within the COST program. We look forward to the successful outcomes of their research and collaborations.

> EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY

News From The Faculty

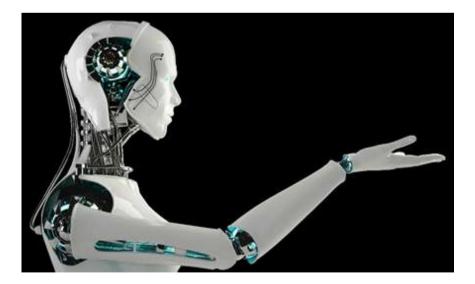
# **COMPUTER ENGINEERING**

## **SRP Support to IGUROB Project**

The project titled "IGUROB: Artificial Intelligence Supported Humanoid Robot Design", led by Prof. Dr. Abdulsamet HAŞILOĞLU, director of Istanbul Gelişim University Information Technologies and Robotics Research Center (ITRRC) and also a faculty member of the Department of Computer Engineering, is supported by the IGU Scientific Research Projects (SRP) Commission. was deemed worthy.

The IGUROB project, which will add a new one to ITRRC's innovative studies, aims to design humanoid robots using artificial intelligence technologies. With this project, it is aimed to take human-robot interaction to further levels and develop smart robots that can be used in various fields.

Making a statement about the project, Prof. Dr. Haşıloğlu said, "This support will further strengthen ITRRC's work on advanced technology and artificial intelligence. Our aim is to contribute to the technological development of our country and to produce projects that can compete in the international arena." said.





# News From The Faculty MAY 2024

# **MECHATRONICS ENGINEERING**

Assist. Prof. Dr. Safar POURABBAS, Faculty Member of IGU Faculty of Engineering and Architecture, Department of Mechatronics Engineering, introduced our department laboratory, our department and our university to high school students on May 7-10 and Assist. Prof. Dr. Haydar İzzettin KEPEKÇİ on May 8. They informed high school students about the meaning and duties of Mechatronics Engineering, the curriculum of the department, laboratory and physical facilities, education and training objectives and principles.



On 09.05.2024, an on-line interview was held between TAI and Gelisim University students and academicians of the Department of Mechatronics Engineering. Mr. Sinan ÇAĞATAY, System Layout Design Manager of Turkish Aerospace Industries (TAI), attended this event as a speaker. He gave comprehensive information to our University about the point reached by the Turkish Aerospace Industry in our country and the KAAN project, which is a National Fighter aircraft.



# News From The Faculty MAY 2024

# **MECHATRONICS ENGINEERING**

On 27.05.2024, Mr. Ali İlker Selviboy, FOLYO PRODUCTION MANAGER at ASSAN ALÜMİNYUM. met with the students in the Manufacturing Methods course of Assist. Prof. Dr. Cansu Noberi, Department of Mechatronics Engineering. His educational and complementary seminar titled "Production Methods in the Aluminum Sector" was highly appreciated by the students. After the the students made seminar. important contributions to themselves by discussing the issues they wondered about their possible career plans.







# **AERONAUTICAL ENGINEERING**

#### **Open Day Event at Our Aeronautical Engineering Department:** Students Get to Know Aeronautical Engineering

Dear Istanbul Gelisim University Family,

On May 8th, we had the pleasure of hosting the Open Day event at our Department of Aeronautical Engineering in the Faculty of Architecture and Engineering. This event provided an exciting opportunity for high school students to gain insight into the field of aeronautical engineering before shaping their careers.

During our Open Day event, external guests had the opportunity to observe undergraduate courses in aeronautical engineering. This allowed our students to get a glimpse into a wide range of topics, from aircraft design to aerodynamics, from engine technologies to materials science, and witness their application firsthand. Additionally, our academic staff and student representatives were present to answer questions and share their experiences with the participants.

We were delighted to have the opportunity to meet and welcome young talents with the potential to become leaders in the future aviation industry during our event. At Istanbul Gelisim University, we aim to contribute to the academic and professional development of our students, and we are pleased to assist them in discovering their potential through such events.







# AERONAUTICAL ENGINEERING

#### Benefits of Inter-University Staff Exchange: Erasmus+ Experience from Istanbul Gelisim University to Edutus University

Hüseyin Furkan Çelik, a research assistant in the Department of Aeronautical Engineering at the Faculty of Architecture and Engineering of Istanbul Gelisim University, visited Edutus University, one of Hungary's prestigious educational institutions, from April 16th to 29th to gain international experience as part of the Erasmus+ 2023 Staff Training Mobility.

This visit not only facilitated individual development but also emphasized the importance of inter-university collaboration and staff exchange. This exchange between the two universities allowed academics and researchers to develop a deeper understanding of different cultures, educational systems, and work environments.





MAY 2024

# AERONAUTICAL ENGINEERING

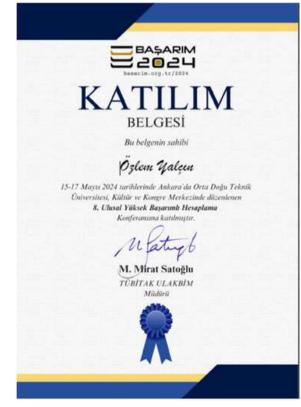
#### The Eighth National High-Performance Computing Conference, **BAŞARIM 2024**

The eighth edition of the National High-Performance Computing Conference, BAŞARIM 2024, was held this year at METU (Middle East Technical University). The conference aims to disseminate and enhance national-scale efforts in High-Performance Computing (HPC), promote digital transformation, share experiences, and bring together stakeholders utilizing this technology.

Organized in collaboration with TÜBİTAK ULAKBİM, Middle East Technical University, Sabancı University, Istanbul Technical University UHeM, Bilkent University, and with the support of the EuroCC2@Turkey project, the conference took place face-to-face at METU KKM halls from May 15th to 17th, 2024.

Our university's Department of Aeronautical Engineering was represented at the National High-Performance Computing Conference by Research Assistant Özlem YALÇIN, presenting the study "Solution of Natural Convection Problems using the Lattice Boltzmann Method.".

Research Assistant Özlem YALÇIN developed a code for the Lattice Boltzmann Method solution algorithm, which calculates mesoscopic-scale simulations, in her study titled "Solution of Natural Convection Problems using the Lattice Boltzmann Method." In this study, a square cavity problem was subjected to different surface temperatures, and Rayleigh numbers of 10^4, 10^5, 10^6, and 10^7 were considered. The results obtained from this code were compared with analyses conducted using the traditional discretization method, the Finite Volume Method (FVM), in Ansys Fluent.



# ACTUEL TOPICS IN ENGINEERING AND ARCHITECTURE

### Smart Factories Prepared by: Res. Asisst. Duygu TÜYLÜ



Industrial engineering applies various engineering principles to increase the efficiency of production and service processes, optimize resource use and improve quality. Today, this field is undergoing a major transformation with technological advances. One of the most important elements of this transformation is "smart factories".

#### **Definition of Smart Factories**

Smart factories are production facilities that develop within the framework of Industry 4.0 and include the use of advanced technology in production processes. These factories work with the integration of technologies such as the internet of things (IoT), artificial intelligence (AI), big data analytics, cloud computing and cyber-physical systems. The aim is to make production processes more flexible, efficient and customizable.

#### The Role of Industrial Engineering

Industrial engineers play a critical role in the design, installation and operation of smart factories. Developing processes that meet the requirements of smart factories, optimizing these processes and ensuring continuous improvement are among the main duties of industrial engineers. In addition, they play an active role in areas such as collecting and analyzing data, managing supply chains and optimizing human-machine collaboration.

#### **Advantages of Smart Factories**

Productivity Increase Flexibility Cost reducing Quality Improvement

#### **Future Directions**

Smart factories are expected to develop further in the future. In particular, advanced artificial intelligence applications, autonomous robots and advanced IoT devices will further expand the capabilities of smart factories. These technological advances bring about the need for industrial engineers to constantly learn and adapt.

As a result, industrial engineering and smart factories are the cornerstones of the modern manufacturing world. This integration offers great benefits to both manufacturers and consumers by ensuring that production processes are more efficient, flexible and of high qualit

#### The World's Largest Sic Aspherical Mirror Prepared by: Res.Asisst. Elif ÖZTÜRK



The Changchun Institute of Optics, Fine Mechanics and Physics has created a silicon carbide mirror 4m across – claiming it to be the world's largest aspheric mirror made from the material. It is was by sintering SiC powder, starting with 12 segments in their 'green' state.

These were stuck together using a bonding agent made from a mixture of SiC powder and phenolic resin, carefully designed in grain size and composition to blend in with the segments as the whole thing was baked into one solid structure during the final sintering step.

The result was a single mirror blank with almost homogeneous properties.

Telescope mirrors need to resist deformation under their own weight, which is why stiff light materials like silicon carbide are chosen – this particular one weights around 120kg/m2.

To cover pores in the front surface of the sintered structure, a smooth layer of silicon 12µm thick was deposited using a physical vapour deposition process developed to keep temperature, and therefore distortion, to a minimum.

After final processing, surface roughness and surface shape errors are a few nanometres. If you like optical discussions, or some construction detail, the paper 'Challenges and strategies in highaccuracy manufacturing of the world's largest SiC aspheric mirror' describes the project clearly in Light: Science & Applications

### Trends in Software Engineering for 2024 Prepared by: Res. Asisst. Sevcan BULUT



#### Artificial Intelligence and Machine Learning:

Artificial intelligence (AI) and machine learning (ML) continue to play a central role in the world of software development in 2024. AI and ML-based solutions are used not only in data analytics and prediction but also in areas such as automatic code generation and bug detection. These technologies enable software engineers to work more efficiently and effectively.

#### Cloud Computing and Serverless Architectures:

Cloud computing is becoming increasingly prevalent in software engineering processes. Serverless architectures allow developers to quickly deploy and scale their applications without worrying about infrastructure management. Solutions like AWS Lambda, Azure Functions, and Google Cloud Functions are at the forefront of this trend.

#### Security and Privacy:

Cybersecurity remains one of the main focuses of software engineering in 2024. Secure coding practices and data privacy measures have become integral parts of software development processes. Zero Trust architectures and secure DevOps (DevSecOps) implementations are leading the innovations in this area.

#### 2. New and Popular Programming Languages

Rust:

Rust continues to gain popularity as a programming language known for its safety and performance features. By minimizing memory safety issues, Rust is particularly favored for system programming and large-scale applications.

Kotlin:

Kotlin is steadily replacing Java in the field of Android development. As a modern and easy-to-use language, Kotlin is an ideal choice for both beginners and experienced developers. TypeScript:

TypeScript combines the flexibility and dynamism of JavaScript with static type checking. It is rapidly becoming popular among teams developing large and complex web applications.

## BIOMIMETRY - NANOSCIENCE IN NATURE - 1 Prepared by: Assist. Prof. Dr. Cansu NOBERİ

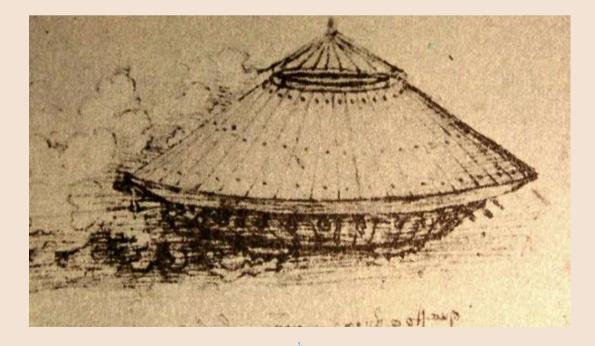


"If I could uncover anything that is hidden from us - at least in modern culture - it would be something we have forgotten. It would be something we already knew as well as our name. And that is that we are part of a perfect universe, surrounded by geniuses."

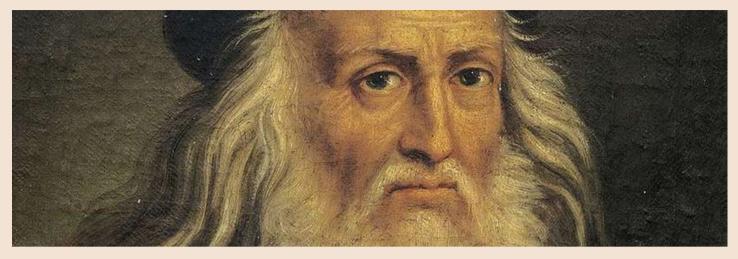
As Janine Benyus stated in the introduction of her 2009 TED Global talk, we are part of a perfect universe and surrounded by true geniuses. "Biomimetry" is a discipline that has emerged by taking examples from these geniuses and is developing day by day.

The term biomimetry is formed from the words "bios" (life) and "mimesis" (imitation). Therefore, the concept of biomimetry can be explained as "imitating nature (life)".

Humans are a part of nature and humanity has aimed to use nature in every field since its existence. The concept of biomimetry aims to behave like nature rather than using it. The order of nature has been functioning flawlessly for centuries. This perfection passes through ensuring that every problem that arises is solved within itself. If nature can achieve this success within itself, the idea of biomimetry was put forward that we, as human beings, can take an example from it. The first example of this idea was seen in the inventions of Leonarda da Vinci. Observing the wings and flapping of birds, Leonardo da Vinci invented the first flying machine. This was followed by the Wright brothers flying the first motorized airplane inspired by the wing of a pigeon. Figure 1 shows Leonardo da Vinci's tank design based on the turtle and Figure 2 shows the mechanical wing mechanisms designed by Leonardo da Vinci based on the dragon fly.



# BIOMIMETRY - NANOSCIENCE IN NATURE - 1 Prepared by: Assist. Prof. Dr. Cansu NOBERİ



#### So how do we solve problems with a "Biomimetric" approach?

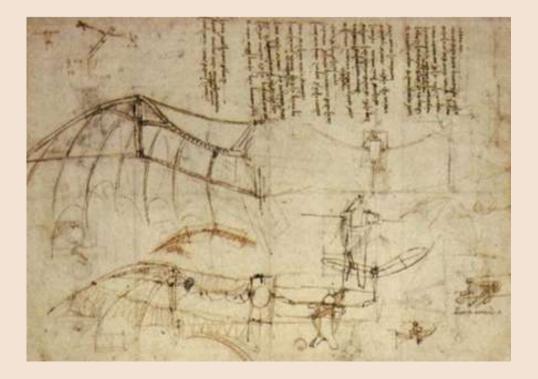
In contrast to the classical product development approach, biomimetics argues that instead of creating everything from scratch, we should first evaluate existing resources and all strategies and solutions should be inspired by nature.

The biggest problems facing mankind are «food» ve «energy»

Biomimetics argues that the methods of struggle & survival developed by nature against the same problems can also be a solution to the problems of human beings.

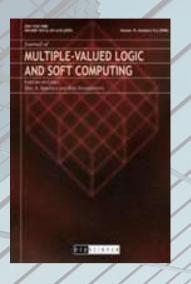
The product development process can be summarized in the following steps;

- Every design is made to solve a problem. For this, the problem must first be defined correctly.
- Identify similar problems in nature and examine the solutions developed against these problems.
- Designs should be developed on how these solutions can be adapted to human life and a product and/or process compatible with nature should be designed.



# ACADENICAND SCIENTIFIC ACTIVITIES

#### INDUSTRIAL ENGINEERING





**CIVIL ENGINEERING** 

Working in Industrial Engineering Department, Res. Ass. Dr. Nurdan Tüysüz's new article has been published

Working in Industrial Engineering Department, Res. Ass. Dr. Nurdan Tüysüz's article titled "Interval-Valued Spherical Fuzzy Z-AHP Method Based on Reliability of Judgments: Green Supplier Selection" has been published in the SCI-Expanded indexed journal "Journal of Multiple-Valued Logic and Soft Computing (MVLSC)" We congratulate and wish her continued success.

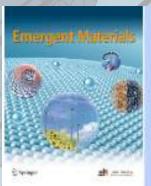
Working in Industrial Engineering Department, Ass.Prof. Mert Yıldırım's new article has been published

Department of Industrial Engineering Faculty Member, Assistant Professor Mert YILDIRIM's article titled "Development and characterization of smart composites reinforced with fibrillated cellulose and nickel-titanium alloy" has been published in the prestigious journal "International Journal of Biological Macromolecules" (Q1, Impact Factor: 8.2, CiteScore: 14.5) of Elsevier, one of the world's largest and leading scientific publishers

The research paper titled "Undamped Forced Vibration Analysis of Castellated Steel Beam with Circular, Square and Pentagonal Web Openings" written by Assist. Prof. Dr. Ahmad Reshad NOORI, Head of Civil Engineering Department, with Maryam HASHM and Masihullah NOORI, undergraduate students of Civil Engineering English program, and Silda Gazi DOORI, PhD student, was published in Adıyaman University Journal of Engineering Sciences.

The research paper titled "How does the isophthalic unsaturated polyester affect the dielectric properties, the glass transition, and the ductility of bitumen?" co-authored by Prof. Dr. Mustafa KARAŞAHİN from the Department of Civil Engineering was published in Road Materials and Pavement Design. Another article of our department member titled "Investigation of the Effect of Body Weight and Vehicle Speed on the Measurement of Vibrations Used in Highway Pavement Evaluation" was published in Kahramanmaraş Sütçü İmam University Journal of Engineering Sciences.

#### **MECHATRONICS ENGINEERING**





Bilimsel Araştırma Projeleri Koordinatörlüğü The article titled "3D printed polylactic acid (PLA)/polymethyl silsesquioxane (PMSQ) based scafolds coated with vitamin E microparticles for the application of wound healing" prepared by Assist. Prof. Dr. Cansu NOBERİ and her working group was published in "Emergent Materials" journal.

Gelisim University Faculty Istanbul of Engineering and Architecture, Head of Mechatronics Engineering Department Prof. Dr. Hamdi Alper ÖZYİĞİT, Department Faculty Member Assist. Prof. Dr. Safar POURABBAS and Department Research Assistants: Res. Assist. Tunay ACIMAN, Res. Assist. Ufuk ATESOĞLU and Res. Assist. Muhammed Lütfi TIRABZON, the Project Coordinator Prof. Dr. Abdulsamet HAŞILOĞLU and Faculty of Engineering and Architecture Faculty Members, Research Assistants and Students took part in the "IGUROB: Artificial Intelligence Supported Humanoid Robot Design" has been deemed eligible for support by Istanbul Gelisim University Scientific Research Projects Commission.

Assist. Prof. Dr. Kenan ŞENTÜRK and Res. Assist. Tunay ACIMAN's project application titled "Artificial Intelligence Supported Analysis of Cyber Security Vulnerabilities of PLC Devices and Attack Detection with the Help of Expert System" was deemed eligible for support by Istanbul Gelisim University BAP commission.

#### ELECTRICAL ELECTRONICS ENGINEERING

- Outage performance analysis of antenna selection schemes in UAV-assisted networks. AEU-International Journal of Electronics and Communications 178, 155278 Impact Factor: 3.2

- A Security Enhanced Chaotic-Map Based Authentication Protocol for Internet of Drones. IEEE Internet of Things Journal Impact Factor: 10.6 These are academic studies done by our teacher Halit Yahya.

### İSTANBUL GELİŞİM UNIVERSITY GRADUATE TRACKING SYSTEM

Graduate Tracking System (METSIS) was opened to determine and follow the

current status of our graduates, such as employment and post-graduation education, and to create statistical data. Istanbul Gelişim University has activated METSİS in order to strengthen its relations with graduates and contribute to the employment of graduates. Our graduates can become members of METSİS free of charge. (metsis.gelisim.edu.tr)

Our graduates who are METSIS members can follow our job postings by updating their personal profiles.

How do I become a member of METSIS?

Log in to metsis.gelisim.edu.tr platform. You can follow the postings in the open positions box. To apply for the postings, you can create an account from the New Candidate box. After creating an account, you can view job postings and apply for suitable positions from the postings tab at the top.

#### GRADUATE SATISFACTION SURVEY

Dear IGU Alumni,

Within the scope of the Strategic Plan, a "Graduate Evaluation Survey" has been developed in order to obtain your opinions as an important stakeholder and to determine the program and course outcomes in line with these opinions.
If you want to see your university in higher rankings, we kindly ask you to fill out the survey and thank you for your participation.

SCAN ME

Graduate Evaluation Survey: https://metsis.gelisim.edu.tr/