



**Istanbul Gelisim
Vocational School**



IGVS

Monthly E-Bulletin

September

2024

Volume 4 / Issue 9

myo.gelisim.edu.tr



Dear Young People,

Istanbul Gelisim Vocational School, which started its education life in 2008, started to publish a monthly E-Bulletin as of 2021. We are very happy to bring you the September issue of our e-bulletin and to share with you the developments in our Vocational School. I believe you will enjoy reading our bulletin and I present my greetings and respect with the hope of meeting you in a new issue.

You can follow all the developments in our Vocational School on our social media channels.

Director of IGVS
Assoc. Prof. Lokman KANTAR



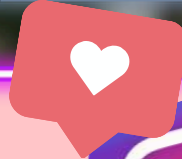
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*IGVS E-Bulletin has been prepared according to the Turkish Higher Education Quality Council (THEQC) criteria.



LEADERSHIP

ACADEMICIANS FROM IGU ARE ON THE "BEST SCIENTISTS" LIST OF THE WORLD AND COUNTRIES!

Research.com, one of the world's leading research and academia portals, has announced the list of the "Best Scientists" of the world and countries. Istanbul Gelisim University academics were shown among the best scientists in Turkey and the world with their degrees in "Engineering and Technology", "Economy and Finance" and "Neuroscience".

Great success in the fields of "Engineering and Technology", "Economics and Finance" and "Neuroscience"!

Istanbul Gelisim University, which is modern, developing, producing and advancing with an understanding of quality education, stands out with its science, technology and R&D studies. According to the list created on the basis of the D-index created for the purpose of measuring, evaluating and monitoring the performance of scientists in terms of scientific productivity. 3 academicians from Istanbul Gelisim University were included in the list of "Best Scientists" with their successful work.

Istanbul Gelisim University Rector Prof. Dr. Bahri Şahin ranked 17th among 47 scientists from Turkey and 4020th in the world in the field of Engineering and Technology.

Prof. Dr. Kemal Sıtkı Türker from IGU Faculty of Dentistry achieved an important success by being 4th among 6 scientists from Turkey and 5870th in the world.

Asst. Prof. Dr. Festus Victor from the Faculty of Economics, Administrative and Social Sciences of IGU was the only scientist from Turkey to be ranked in the field of Economics and Finance, and he was ranked 1183 in the world.



IGU's Great Success in TUBITAK 2023 Competency Map Report

Istanbul Gelisim University took place in 17 of 21 main research areas and 62 of 132 sub-research areas in the TUBITAK 2023 competency map. IGU has come to the fore among Turkish universities in terms of both quality and research intensity in 9 of the main research areas and 26 of the sub-research areas.

The fields in which our university stands out both in terms of research quality and research intensity. Its ranking among Turkish universities are given in the table below.

We thank all academic staff who contributed.

[Click](#) for TUBITAK 2023 Competency Map.

The ranking of research areas of Istanbul Gelisim University among Turkish universities in terms of quality and research intensity according to the TUBITAK 2023 Competency Map

Main Research Area	Sub-Research Area	Quality Ranking in Turkey	Research Intensity Ranking in Türkiye
Information and Communication Technologies	Information security	1	4
	Big Data	15	43
	Broadband Technologies	3	6
	Internet of Things	4	8
	Robotic	7	40
Social and Humanities	Law	1	8
	Economy	2	22
	Business Administration	4	23
	Public Administration	1	1
	Urbanization	1	27
	Mass Communication	7	45
	Politics and International Relations	1	9
	Sociology	1	24
	Transportation Rail way Systems	1	16
Environmental Sciences	Logistic	1	17
	Meteorology	1	11
Energy	Coal	1	3
	Bioenergy	15	71
	Energy Storage	2	55
Physics	Solar energy	23	65
	Statistical Physics	22	37
Aviation and Space	Aircraft Design	1	42
	Satellite and Launch Technology	3	65
Construction	Civil Engineering	3	35
Automotive	Electric and Hybrid Vehicle Technology	1	42
Basic Sciences	Mathematics	17	50





SCIMAGO
INSTITUTIONS
RANKINGS

SCImago 2024 results have been announced: IGU is in the top 5 in the field of research!

The results of "SCImago University Rankings 2024", which ranks the scientific research, innovation and social impacts of world universities according to SCOPUS publication and citation data, have been announced. Standing out with its work in research areas, Istanbul Gelisim University ranked 5th among Turkish universities in the field of research and 25th in all fields. It attracted attention with the results it received in the categories of Economy, Environmental Science, Business Administration, Energy, Social Sciences and Engineering.

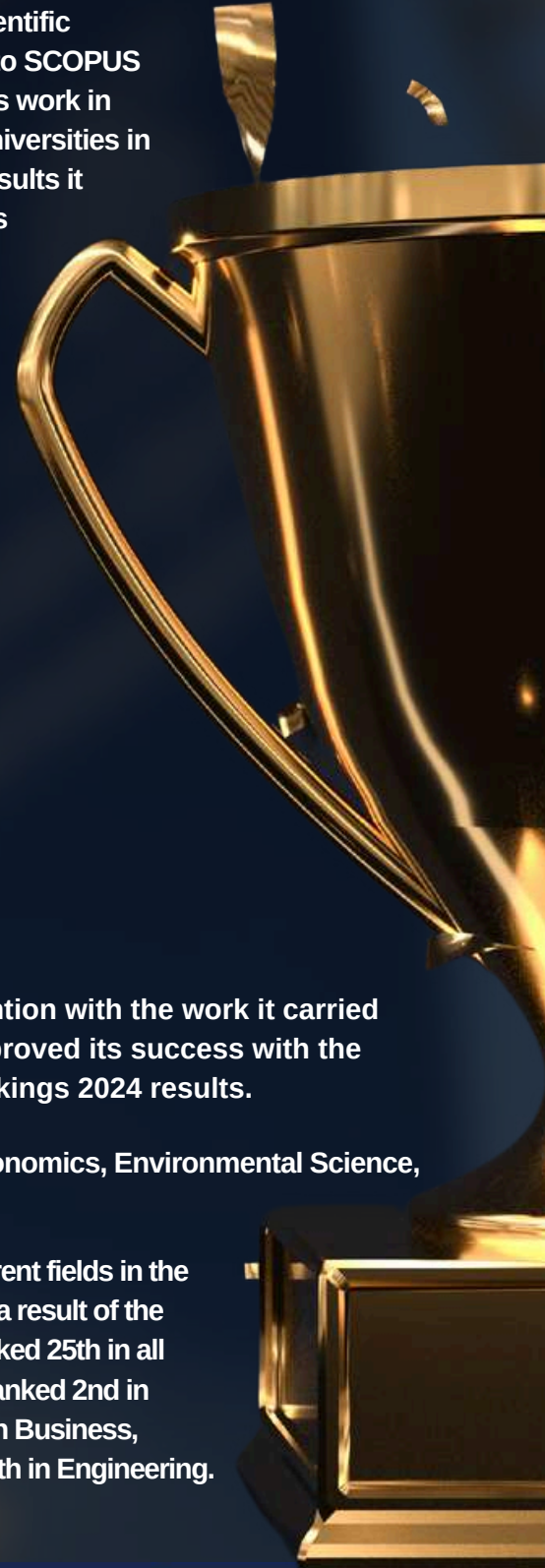
The results of "SCImago University Rankings 2024", which measures the social, scientific impact and innovation of universities around the world, have been announced. Aiming to give a general idea about universities by measuring their performance in terms of research, innovation and social impact, SCImago University Ranking helps students obtain information about a university's education quality, effectiveness and prestige.



Proceeding with the vision of "World University", IGU attracted attention with the work it carried out for its students and the opportunities it provided. It once again proved its success with the degrees it received in different fields in the SCImago University Rankings 2024 results.

Remarkable success among Turkish universities in the categories of Economics, Environmental Science, Business Administration, Energy, Social Sciences and Engineering!

Istanbul Gelisim University draws attention with its research studies in different fields in the 2024 results of SCImago, one of the university evaluation organizations. As a result of the evaluation made on SCOPUS research data, Istanbul Gelisim University ranked 25th in all fields and 5th in the field of research among Turkish universities. IGU also ranked 2nd in Economics, Econometrics and Finance, 4th in Environmental Science, 7th in Business, Management and Accounting, 8th in Energy, 13th in Social Sciences and 14th in Engineering.



IGU's big Times Higher Education (THE) success: 1st in the 'Accessible and Clean Energy' category!

TIMES
HIGHER
EDUCTION



World universities ranking organization Times Higher Education (THE) Impact Ranking 2024 was announced. Among the 2152 universities in the ranking, Istanbul Gelisim University (IGU) ranked 6th in the "Accessible and Clean Energy" category by increasing its success ranking from 12th last year to 6th this year, while it ranked 1st among the foundation universities in Türkiye.

A total of 2152 universities were evaluated with the addition of 447 universities to the number of applications, which was 1705 last year in the Times Higher Education (THE) ranking, the world's leading higher education rating agency based in the UK. Türkiye ranked 2nd in the Times Higher Education (THE) 2024 ranking, where 92 universities were rated.

Advancing with the vision of World University, IGU ranked 27th in Türkiye and 7th among the foundation universities in the Times Higher Education (THE) Impact Ranking 2024 list, IGU also ranked in the 801-1000 band worldwide.



In the ranking carried out in line with the 17 categories determined by the United Nations within the scope of the Sustainable Development Goals (SDG), Istanbul Gelisim University attracted great attention in 4 different categories with its studies in the field of education, innovative projects and contributions to society. IGU has achieved the following significant achievements:

- 6th in Türkiye in SDG-7 Accessible and Clean Energy category, 1st among foundation universities in Türkiye and 101-200th in the world,
- 12th in Türkiye in SDG-17 Partnerships for Purposes category, 5th among foundation universities in Türkiye, 401-600 worldwide,
- 28th in Türkiye in the SDG-3 Health and Quality Life category, 9th among foundation universities in Türkiye, 601-800th worldwide,
- 26th in Türkiye in the SDG-10 Reducing Inequalities category, 9th among foundation universities in Türkiye, 401-600 in the world,
- In the Impact Ranking, IGU ranked 27th in Türkiye, 7th among the foundation universities in Türkiye, and 801-1000 worldwide.

"We are committed to continuing our work on energy efficiency"

Abdülkadir Gayretli, Chairman of the Board of Trustees of Istanbul Gelisim University, pointed out that IGU ranks 1st among the foundation universities in Türkiye in the 'Accessible and Clean Energy' category. Gayretli continued his words as following: "While supporting the practices for the effective use of natural resources, we are proceeding with sensitivity on energy and waste management with a universal sense of responsibility. We remain committed to continuing our important work on energy efficiency and climate change."

"We prioritize sustainability studies in all areas"

According to the United Nations 17 Sustainable Development Goals, Istanbul Gelisim University (IGU) Rector Prof. Dr. Bahri Şahin made statements about the ranking in which it is aimed to evaluate the effects of ecological, economic and environmental sustainability practices on society. Prof. Dr. Bahri Şahin said, "As Istanbul Gelisim University, we develop projects by focusing on sustainability studies in all areas, especially environmental sustainability, with the aim of leaving a more livable world for future generations and achieving permanent success. We implement projects that provide added value in the field of university-industry cooperation, science, technology and employment in a way that benefits the society by adopting the 'Sustainable Development Goals'. Council of Higher Education (YÖK) Chairman Prof. Dr. Erol Özvar: "I fully believe that we will further increase our achievements in the future by focusing on the internationalization, academic productivity and research quality of our university and proceeding with responsible production and consumption awareness."



"The steps we have taken together with world-renowned leaders are very valuable for a sustainable future"

Participating in the 2024 THE Global Sustainable Development Congress held on June 10-13, 2024 at Queen Sirikit National Convention Center in Bangkok, the capital of Thailand, IGU Vice Rector for Quality, Accreditation and Internationalization Prof. Dr. Arda Öztürkcan: "It is the second international the event I attended this year after THE Asian Universities Summit. Our participation in congresses such as Greenmetrics, Zero Waste and THE and our breakthroughs in this field have brought many achievements to our university in the field of sustainability. In line with our goals, steps we have taken by meeting with world-renowned leaders for a sustainable future by participating in 2024 THE Global Sustainable Development Congress are very significant. Vice President of the Council of Higher Education (YÖK) Prof. Dr. Halim Haldun Göktaş announced that GSDC 2025 will be carried out in Istanbul. I would like to thank YÖK for this success."



RUR 2024 results announced: IGU has risen 23 places in the overall ranking!

According to the results announced by Round University Ranking (RUR), one of the institutions ranking universities in the world, Istanbul Gelisim University rose 23 places in the world with 1099th. IGU, on the other hand, ranked 48th among universities in Türkiye and 18th among foundation universities.



Continuing to progress with the vision of "World University", Istanbul Gelisim University (IGU) has achieved a significant success in the international arena and increased its place in the RUR 2024 World Universities Ranking by 23 steps compared to last year. According to the list published by the RUR Rankings Agency for 15 years, IGU ranked 48th in Türkiye and 18th among foundation universities in Türkiye this year.

Round University Ranking (RUR), one of the prestigious organizations ranking world universities, announced the results of 2024. RUR, which evaluates the leading universities around the world according to a total of 20 indicators under the headings of teaching, research, international diversity and financial sustainability, bases its ranking on certain criteria. When determining the scores of universities, teaching and research dimensions are reflected in the total score as 40 percent, and international diversity and financial sustainability indicators are reflected in the total score as 10 percent.

According to the ranking explained in the indicators of Teaching, Research, International Diversity and Financial Sustainability, IGU ranked 1113th in the world in the 'Teaching' indicator and 15th among foundation universities in Türkiye. While maintaining its place in the 'Research' indicator last year, it ranked 1017th in the world ranking and 16th among foundation universities by increasing its score. IGU, which achieved global success with its internationalization strategies, continued its success in the 'International Diversity' indicator and ranked 730th in the world and 16th among the foundation universities in Türkiye, while it ranked 1106th in the world and 16th in the foundation universities in the 'Financial Sustainability' indicator.

"2024-2025 Academic Year Student Orientation" was held

2024-2025 Academic Year Istanbul Gelisim Vocational School Student Orientation Program started with the opening speech of our Vocational School Director Assoc. Prof. Dr. Lokman Kantar after a moment of silence and the National Anthem.

Kantar gave information about the academic and administrative staff of our vocational school, academican and student projects, and infrastructure facilities. Vocational School program heads were invited to the podium.



Our program heads introduced themselves and give information about our programs and vocational school, adding their good wishes. After the collective photo shoot, the managers of our university units such as Career Center, Psychological Counseling and Guidance Unit, Anti-Addiction Coordinatorship were invited to the stage and explained their units. Following the introductions of our units, the orientation program continued with the speeches of our graduating students. The orientation program was completed with the presentation of student clubs after the speeches of our students who have achieved success in the field of sports, arts and culture, as well as our students who shared their experiences about the Erasmus+ process.



Minister of Technology and Industry Mehmet Fatih Kacir visited the IGU booth at TEKNOFEST

Many investors, academicians and students visited the booth of the EcoGrow project developed by the IGU AgroBits team on the 3rd day of TEKNOFEST. Minister of Technology and Industry Mehmet Fatih Kacir visited the Istanbul Gelisim University booth and received information about the EcoGrow project.

TEKNOFEST 2024, one of the largest technology competitions in the world, will be held in 46 main categories and 117 subcategories this year. Participants from primary school to university, graduates and professionals participated in the competition finals held at Antalya Anfaş International Fair and Congress Center on September 5-8. The names who successfully complete the last stage of the competition will receive their awards on the main stage of TEKNOFEST Adana.

Istanbul Gelisim University TEKNOFEST team AgroBits consists of Lect. İzzet Yavuz and IGU students Kaan Irmak and İrem Türkyılmaz. They have been attracted great attention by competing with the 'EcoGrow' project in the field of 'Agricultural Technologies'. With the EcoGrow project, the AgroBits team achieved a great success as one of the 38 finalists.

Investors operating in the fields of software, agriculture and robotics and companies interested in agricultural technologies showed special interest in the EcoGrow project. Groups of high school and university students also gained information by examining the project. Throughout the process, IGU Vice Rector Prof. Arda Öztürkcan and TTO Manager Yahya Kemal Kiran took part in TEKNOFEST to support the team.

[Click for the source.](#)



RTC student Emir Akarslan with his film at the Adana Golden Boll Film Festival!

Emir Akarslan, a student from the Department of Radio, Television, and Cinema at Istanbul Gelisim University's Faculty of Fine Arts, has made it to the finals of the 31st International Adana Golden Boll Film Festival with his short film The Way Back (Dönüş Yolu).

Emir Akarslan's short film The Way Back (Dönüş Yolu), a student from the Radio, Television, and Cinema Department, has been selected as one of the 26 finalists in the National Student Short Film Competition at the 31st International Adana Golden Boll Film Festival.

The Way Back (Dönüş Yolu) was chosen as one of the 26 finalists out of 201 films and tells the story of Aliye, a woman who is experiencing domestic violence from her husband and is in the process of getting a divorce.

The film's director, Emir Akarslan, expressed his excitement and happiness about reaching the finals with his film, but he emphasized that he does not see this as a personal achievement. He stated that this success holds great significance as a response to the effort of shedding light on a societal issue.

Akarslan mentioned that he was inspired by Zülfü Livaneli's words, "If I were alive, you wouldn't come; now that I'm dead, did you come to mourn?" when creating the film. He aimed to address the issue of normalized femicides and the social indifference towards these crimes, highlighting how silence and apathy can strengthen societal problems.

Akarslan added that the festival process provides a significant opportunity for these themes and messages to reach a wider audience. He noted that reaching the finals is a testament to the film's societal impact and that this has given him great motivation. He concluded his remarks by thanking his entire team, the festival organizers, and everyone who showed interest in the film.

We congratulate Emir Akarslan and wish him continued success.

[Click](#) for the source.



HISTORY

Istanbul Gelisim Vocational School started education in 2008 with 9 programs and became a school that forms the core of Istanbul Gelisim University. It has shown rapid development since its establishment; it has reached 19 departments, 37 programs and 10,630 students. Evening education is provided in 21 of 37 programs.

Istanbul Gelisim Vocational School continues its educational activities with its experienced and strong academic staff. In addition to the permanent instructors, by employing the leading names of the sector part-time, the students are given the opportunity to learn their practical experience in business life.

Istanbul Gelisim Vocational School, which has moved to its new campus as of the Fall Term of the 2017-2018 Academic Year, has a total of 22 workshops, including Aircraft Maintenance Workshops, Mock-Up, Kitchen, Electric, Construction, Automotive, Serigraphy, Ceramics and Fashion workshops, in its new campus so that students can apply their theoretical education practically. Besides it offers a field of application with 7 Computer Labs, one of which is MAC.

Our School's Aircraft Technology Program has the Recognized School Approval Certificate from the General Directorate of Civil Aviation (SHGM) as well as the Flight Operations Specialist Training (Dispatcher) Authorization Certificate from the DGCA. Apart from our two programs authorized by DGCA, the licensing processes for the Approved Cabin Crew Basic Training Organization Certificate for Civil Aviation Cabin Services Turkish and English Programs and the Approved Ground Handling Training Organization Certificate for Civil Air Transport Management Turkish and English Programs are continuing at the DGCA.

Istanbul Gelisim Vocational School students can benefit from the educational and social activity opportunities available in all campuses of our university without interruption.

OUR MISSION

To equip our students in all the programs with innovations in their fields, to keep them informed of current developments, to keep this process alive with scientific activities, and to support the scientific studies of lecturers. To be the solution for the need of qualified intermediate staff with the qualifications required by the sector, to have assimilated the latest technological developments, to have developed a practical side.



OUR VISION

Our vision is to be one of the world's leading vocational schools with qualified academic staff and all the programs recognized by international institutions and organizations, and to train students who are demanded by the market and who are all employed after graduation.



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EDUCATION



NEWS FROM IGVS

Artificial Intelligence Days in Avcılar

Lect. Ali ÇETİNKAYA from the IGVS, Electronics Technology programme participated as an instructor in the event called 'Artificial Intelligence Days in Avcılar' held within the Avcılar Municipality Applied Solution and Innovation Centre. During the day-long event, the importance of Turkish literature in artificial intelligence studies, processing - analysing Turkish data and developing applications by addressing the issues of producing solutions using Turkish data sets. At the end of the event, Engineer MSc. Oktay Arslan, General Coordinator of Avcılar Municipality Innovation Centre, presented a plaque to the event instructor Lect. Ali ÇETİNKAYA.



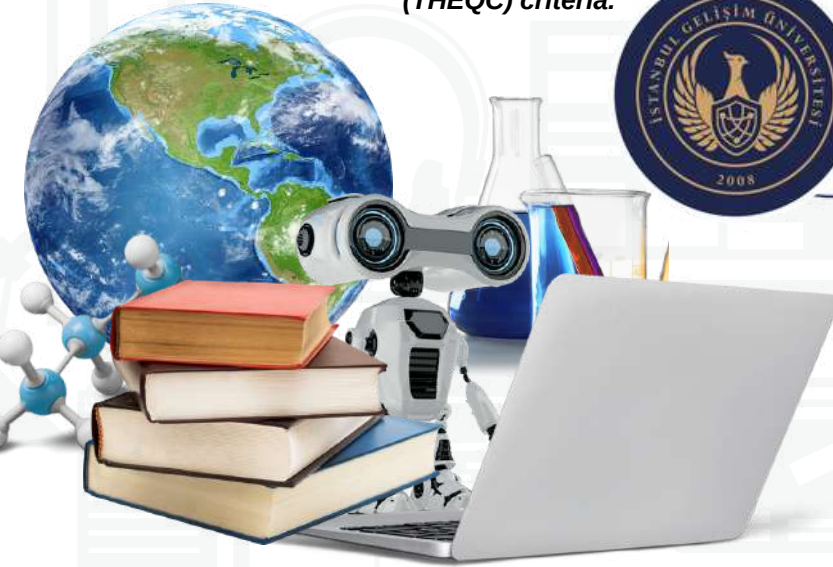


IGVS September Appointments



Lect. Nevzat Yağız TOMBAL has been appointed as the “Vice Director” to the Directorate of Gelisim Vocational School.

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R & D

Istanbul Gelisim Vocational School, Electrical Program lecturer İzzet YAVUZ and Electronics Technology Program lecturer Şehmus TURAN attended the “International 9th Socrates Congress of Health, Engineering and Applied Sciences” hosted by Istanbul Gelisim University on August 16-18, 2024, and made a full-text presentation titled “Weather Forecasting Using Artificial Neural Networks”.

<https://ubsder.org.tr/uluslararasi-9-socrates-saglik-muhendislik-ve-uygulamali-bilimler-kongresi/>

Istanbul Gelisim Vocational School, Electronics Technology Program lecturer Şehmus TURAN and Electrical Program lecturer İzzet YAVUZ attended the “International 9th Socrates Congress of Health, Engineering and Applied Sciences” hosted by Istanbul Gelisim University on August 16-18, 2024 and made a full text presentation titled “Calculation of Armature/Lamp Mounting Locations and Distributions for Illumination in Rest Areas of Industrial Facilities”.

<https://ubsder.org.tr/uluslararasi-9-socrates-saglik-muhendislik-ve-uygulamali-bilimler-kongresi/>

In the 2023-2024 spring semester of our students in the IGVS, Computer Technology programme, integrated applications were developed with Computer Technology students within the scope of BTP206 Microcontrollers course under the direction of Lect. İSMAİL H. SERİ and BTP222 Robotics course under the direction of Lect. Ali ÇETİNKAYA. The names of our students are: İlyas Yıldız, Salih Gündüz, Hasan Hüseyin Soyyiğit, Muhammet Ali Süer, Reyhan Aslantaş, Ebru Bozkurt, Ahsen Çolak, Elif Uğurlu, Feyzanur Doğan, Anıl Aksakaloğlu, Atilla Eren Yılmaz, Muhammet Berkay Subaşı, Duygu Sarıbaş, Emirhan Kayabaş, Mertcan Şahin and Zeki Yılmaz.

Inventor names in the work titled 'A Shoe Design that Supports the User in the Physical Therapy Process and Contributes to His Recovery' in the intellectual property right application no. TPMK 2024/009984: İlyas YILDIZ, Salih GÜNDÜZ, HASAN HÜSEYİN SOYYIĞİT, MUHAMMET ALİ SÜER, İsmail Hakkı SERİ and Ali ÇETİNKAYA

Inventor names in the work titled 'Smart Medicine Box with Sensors' in the intellectual property right application no. TPMK 2024/009982: Reyhan Aslantaş, Ebru BOZKURT, Ahsen Çolak, Elif Uğurlu, Feyzanur DOĞAN, İsmail Hakkı SERİ and Ali ÇETİNKAYA

Inventor names in the work titled 'Collision Prevention System in Vehicles' in the intellectual property right application no. TPMK 2024/009981: Anıl AKSAKALOĞLU, Atilla Eren YILMAZ, Muhammet Berkay SUBAŞI, Duygu SARIBAŞ, İsmail Hakkı SERİ and Ali ÇETİNKAYA

Inventor names in the work titled 'Automatic Pot Watering System' in the intellectual property right application no. TPMK 2024/009979: Emirhan KAYABAŞ, Mertcan Şahin, Zeki YILMAZ, İsmail Hakkı SERİ and Ali ÇETİNKAYA

Please [click](#) for detailed information.

IGVS, Electronics Technology Program Lect. Ali ÇETİNKAYA's work titled "On-board Solar Charging System for Electric Passenger Cars" within the scope of intellectual property rights has been registered by the Turkish Patent and Trademark Office (TPMK) with the registration number "2022 011796 Y". [Click here to access.](#)



The textbook titled "Fermented Foods", co-authored by Lect. Kübra SAĞLAM from IGVS, Food Technology Program, has been published. [Click here to access.](#)



Lect. Kübra SAĞLAM from IGVS, Food Technology Program defended her PhD thesis entitled "Determination of the Effect of Sourdough Prepared with the Use of Various Lactic Acid Bacteria on Mold Development in Bread", written under the supervision of Assoc. Prof. Dr. Fatma COŞKUN at Tekirdağ Namık Kemal University, Institute of Science, Department of Food Engineering, on 26.07.2024 and was awarded the title of Dr. As IGVS family, we congratulate our teacher and wish her continued success.





SOCIAL CONTRIBUTION



CREATIVE PROCESS IN ART AND DESIGN

Lect. Mehmet ÖĞÜT
Graphic Design Program

Creativity is considered as an ability that can be developed within the framework of the concept of creation. Every individual is born with the instinct to create and develops his/her creativity to the extent that he/she uses this ability throughout his/her life. Social and environmental factors can create advantages and disadvantages in the use of creativity. For each individual, both personal and public education systems play an important role in either unleashing or traumatically suppressing this ability. If the individual so chooses, he or she can later develop his or her creativity by cleansing himself or herself of these traumatic influences.

According to the Turkish Language Institution (TDK), creativity is defined as the state of being creative, the ability to create, the hypothetical predisposition to create something that is accepted to exist in every individual.

According to İsmail Tunalı (2020, 17), "Design is defined as the creation of new models in science, philosophy, technique and art by thinking people rather than being a mere engineering work".

Ernst Fisher said, "Art is necessary for man to recognize and change the world. But art is also necessary only because of the magic it carries in its essence." (2018, Fisher: 29)

Creativity is generally perceived as an innate ability, but such a sharp statement is not true. Creativity is instinctive, it is present in everyone and can be learned and developed later. Therefore, the problem-solving skills we use to live are called creativity. But to what extent do individuals use this ability? From this perspective, technological devices that make life easier today negatively affect creativity. Accordingly, individuals have become less thinkers and less problem solvers.

It can be understood from cave paintings that creativity is a basic instinct of life. Cave paintings are not works of enjoyment, aesthetic pleasure, personal feelings and thoughts transformed into a visual language. They were not produced with an intellectual consciousness. For this reason, cave paintings are not accepted as art. Cave paintings provided the source of the emergence of the language that develops our basic field of expression for the concept of art. The fact that people felt the need to paint cave paintings on the walls is an important issue to think about.

Creativity in Art and Design



Art and Design productions are based on problem solving skills. Art is a visual or auditory solution used to convey a personal message. Design is a visual or auditory solution used to convey an impersonal message. Basically, art and design are functional and form an important part of our living system. At this point, the aim is to underline the necessity of creativity rather than to define it.

William Bernbach argued that creativity is a four-dimensional disciplinary problem and that creativity should be evaluated under the headings of advantage, an intellectual aesthetic, management and responsibility (2019: Becer, 46-47)

Creative Individual

Tom and David Kelley list several effective strategies for creativity: choose creativity, think like a traveler, pay relaxed attention, empathize with your end user, observe in the field, ask questions starting with 'why', redefine challenges, build a creative support network (2020, Kelley : 88-89).

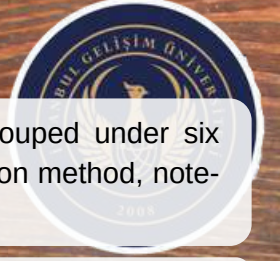
Social psychologist Dr. Irwing Taylor examines human creativity in five stages: Expressive creativity, generative creativity, inventive creativity, innovative creativity, and developmental creativity (2019, Becer: 49--50).

Creative Process

John Hegarty "the creative process involves inputs, not outputs" (2020, Hegarty:7). The creative process starts with the creative individual. A creative individual is someone who uses creativity as a problem-solving skill in the fields of art and design. The creative individual will basically need a problem. The basis of this problem can be summarized with the desire to live. It is possible to become a creative individual by increasing one's own creativity.

The creative process is the person taking action within the framework of his/her desires and wishes. At the first stage, self-belief is the most important factor. Then he/she needs to determine exactly what it is that he/she wants to do. This desire should be remembered throughout the process and the person should have a strong and deep connection.

Methods to Enhance the Creative Process



According to Becer (2019, 50-54), methods to develop the creative process are grouped under six headings: vertical and comprehensive thinking method, brainstorming method, incubation method, note-taking method, synthesis method, visual examinations.

The vertical thinking method defines the process of creativity that is developed by using logical problem-solving skills over conventional methods. The Comprehensive Thinking Method, on the other hand, tries to reach the result by trying solutions outside the usual methods.

Brainstorming is a method developed by Alex Osborn. It is a free-thinking method that consists of small groups and is started and finished within a certain period of time.

Creativity Enhancement Activities

In the field of art and design, the creative process is handled within the framework of basic design elements and principles. According to Becer (2019, 59), basic design elements are seven: line, tone, color, texture, form, measure, and direction. Design principles are five: balance, proportion and visual hierarchy, visual continuity, integrity and emphasis.

Conclusion

Creativity is an ability that can be developed in every individual. Contrary to popular belief, creativity in art and design is not an innate talent. Everyone can use their creativity by trial and error. The concept of creativity needed in the fields of art and design can be transformed into a method that the artist or designer will use as a problem-solving skill. Creativity is an expression process that people use to express the feelings and thoughts they are deeply connected to. The stronger our connection with the visual word we want to say, the more effective designs and works of art can be created. With disciplined work, anyone can develop creative forms of expression.

REFERENCES

- Becer, E. (2019). İletişim ve grafik tasarım. Ankara: Dost Kitabevi.
- Denel, B. (1981). Temel tasarım ve yaratıcılık. Ankara: ODTÜ Yayın.
- Fisher, E. (2018). Sanatın gerekliliği. (C. Çapan, çev.). İstanbul: Sözcükler Yayınları.
- Hegarty J. (2020). Yaratıcılık kuralları boşver. (İ. B. Özçelik, çev.). İstanbul: Kapital Medya Hizmetleri A.Ş.
- Kelley D. & Kelley T. (2013). Yaratıcı özgüven içimizdeki yaratıcı potansiyeli serbest bırakmak. (P. Şengözer, çev.). İstanbul: Optimist Yayın Grubu.
- Weill, A. (2007). Grafik tasarım. (O. Türkay, çev.). İstanbul: Yapı Kredi Yayınları.
- Tunalı, İ. (2020). Tasarım felsefesi. Ankara: Mak Grup Medya Pro. Rek. Yay. A.Ş.
- Uçar, T. F. (2004). Görsel iletişim ve grafik tasarım. İstanbul: İnkılap Kitabevi Yayın Sanayi ve Ticaret A.Ş.
- Türk Dil Krumu (2013). Yaratıcılık kelime anlamı <https://sozluk.gov.tr> adresinden erişildi. (Erişim Tarihi: 10.06.2021)



Smart Textiles and Examples of Various Uses

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One of the most basic needs of human beings, other than nutrition and shelter, is covering, that is, dressing. While natural textile fibers such as linen, silk, cotton and wool are obtained from animal and plant sources, artificial textile fibers such as nylon and polyester have been produced with the development of production techniques in the textile field with the industrial revolution process. The processability of classical textile fibers and their ability to be produced from different chemical substances have shown that they can be assigned some different functions other than covering over time. Apart from meeting the covering function of the fabrics, features such as protection from environmental effects, fireproofing, waterproofing, stain resistance have been added.

With the rapid progress of artificial textiles in the textile sector, the usage areas of smart textiles have diversified. Smart textiles, which started to be used in technical and medical applications, are now used in many areas with new methods and materials developed.

Smart Textiles and Basic Properties

Textile materials that have the ability to sense any environmental effect such as force, heat, light, chemical reactions, electromagnetic waves and react to these stimuli are called smart textiles. Garments with features such as heating, cooling or color changing, products with shape memory, garments that read body parameters and send information to a wireless communication system are among the first examples of the use of these technologies in daily life. There are some basic components for garments to be considered as smart textiles. These are;

- Sensors
- Information processing that saves information
- The device that activates perception (activator)
- Storage system
- Communication components

These components act and react when any factor is present. The fact that the parts to be integrated are small and functional increases the usability of the textile part. Since these systems, which will be used in areas close to the body, systematically emit energy; if they are prepared in a way to pay attention to natural body requirements such as heat, sweat, humidity, movement, the harmful effects of electronic parts used in smart textiles can be reduced.

Some Examples of Smart Textiles:

Smart clothes that can charge your phone

With the solar panels placed on the clothes, the wearer can charge communication devices such as phones and tablets. Designers Pauline Van Dongen, Christiaan Holland and Solar Energy Expert Gert Jan Jongerden have designed clothes in which the wearer can charge communication devices such as phones and tablets with solar panels placed on the clothes to convert sunlight into electricity. These clothes, which will make important contributions in terms of both functionality and sustainability, can store enough energy to charge a normal smartphone by 50% when worn in the sun for an hour.

Emotionally responsive clothing design “Bubelle”

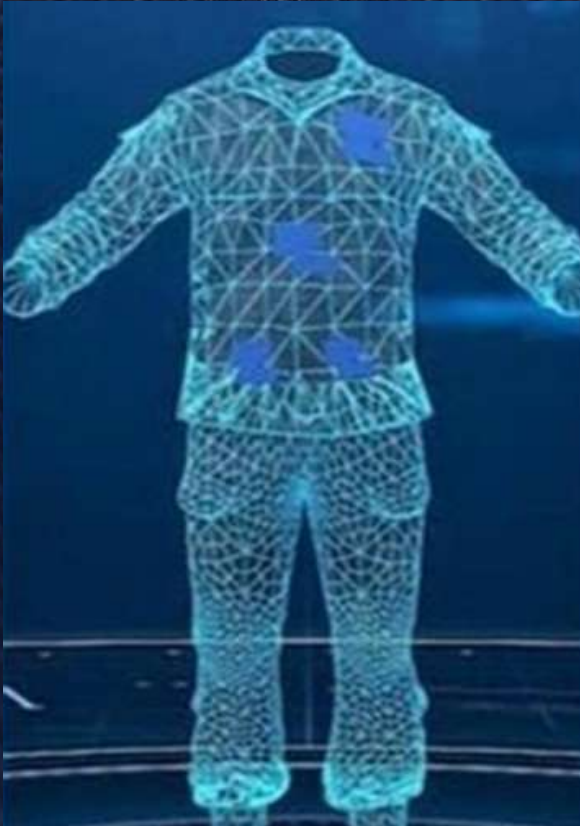
Developed by Philips Design, Bubelle is a smart garment that changes color according to the emotions of the wearer.

It consists of two layers, showing how electronics can be incorporated into fabrics and garments to express the wearer's emotions and personality. The inner layer of the garment has sensors that understand emotions, while the outer layer has sensors that transform the wearer's emotions into specific colors and emit light.



Hüseyin Çağlayan's moving "Airplane Dress"

Developed by Fashion Designer Hüseyin Çağlayan, the 'Airplane Dress' is made of a composite material made of fiberglass and resin by die-casting method. The cups on the front and back of the dress can be opened and closed by remote control, allowing the wearer to change the shape of the dress at will.



The jacket that artificial intelligence cannot detect: "Invis Defense"

Designed to avoid detection by AI-monitored surveillance systems, the jacket was developed by Professor Vang Zheng and his team from the School of Computer Science at Wuhan University. The jacket uses a pattern algorithm to effectively blind cameras during the day, while at night it emits unusual heat signals to confuse infrared cameras.

“Invisibility Cloak” developed by Chinese scientists

Chu Junhao and his team, experts in infrared physics and semiconductor physics, have created an invisibility cloak. The invisibility technique is based on a special material (cylindrical grating) that refracts light regularly (refractive index). When the fabric of the clothes we wear has the same refractive index as air, it seems that the “invisibility” we see in science fiction movies will be possible in our daily lives.



References

Ağaç, S., Balkış, M. (2018). Duygulara Tepki Veren Akıllı Moda Tasarımları, International Journal of Cultural and Social Studies (IntJCSS).

Hakan Verdu Martinez, E. (2012). Moda Tasarımında Sanatsal İfade Önerisi Olarak Alternatif Malzemeler: Seramik Elbiseler Cilt: 3 Sayı: 3, 162 – 181.

Quinn, B. (2010). Textile Futures (Fashion, Design and Technology). Newyork: Berg Publishers. 307pp.

Şahinoğlu Ural, N., Uygur, A.(2014). “Akıllı Tekstiller Ve Günümüzdeki Uygulamalarından Bazı Örnekler”, Sanat – Tasarım Dergisi(5).

<https://www.philips.com/a-w/about/innovation/experience-design.html>

<https://www.ntv.com.tr/teknoloji/cinde-gorunmezlik-pelerini-icat-edildi,MvL8RNrlj0uK-np8cwaCMA>

<https://www.mynet.com/gorenler-gozlerine-inanamadi-cinli-bilim-insanlari-gorunmezlik-pelerini-gercek-oluyor-190101286303>

<https://myo.gelisim.edu.tr/tr/akademik-bolum-moda-tasarimi-haber-telefonunuzu-sarj-ede-bilen-akilli-giysiler>

As part of the improvement activities at IGVS, an elevator for handicapped people was built to ensure that the educational processes of our disadvantaged students are not disrupted and that their educational life is more comfortable.



GVS Quality Commission was held on Monday, September 16th in G Block, at meeting room 108 under the chairmanship of IGVS Director Assoc. Prof. Dr. Lokman KANTAR. The commission consulted on improvement activities and strategic plan issues.

CLUBS

TALK!

ENVIRONMENT AND
ECOLOGY CLUB

Environment and Ecology Club is a student club established within the Department of Health, Culture and Sports of Istanbul Gelisim University. The club consultancy is carried out by H. Esra KARATÜRK, Lecturer at Istanbul Gelisim University - Istanbul Gelisim Vocational School - Department of Management and Organization - Human Resources Management Program. The aim of our club is to enable students to participate in scientific, cultural, social, artistic and sportive activities, to develop their personal potential to the extent of their knowledge, abilities and interests, as well as to support the personal development of students, to enable them to spend their free time, to create social awareness, to increase their awareness of the environment and to contribute to their academic development in this direction. Our club was founded by Istanbul Gelisim Vocational School - Public Relations and Publicity students and is open to the participation of all university students. The fields of activity of our club are as follows:

- Organizing seminars and conferences on environment and ecology,
- To realize green campus studies,
- Going on nature trips,
- Creating national and international ecology-themed projects,
- Promotion and campaigns on energy saving and sustainable energy,
- Organizing activities for children to play an active role in environmental awareness.





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TURKISH AIRLINES



EKOLOOD





SİVİL HAVACILIK
GENEL MÜDÜRLÜĞÜ



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We would like to thank our academicians who contributed to the September issue of Istanbul Gelisim Vocational School E-Bulletin.



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