



**Istanbul Gelisim
Vocational School**



IGVS

Monthly E-Bulletin

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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 February 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



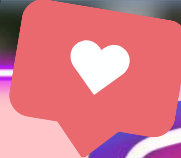
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*IGVS E-Bulletin has been prepared according to the Turkish Higher Education Quality Council (THEQC) criteria.



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 University Rankings 2023 Results

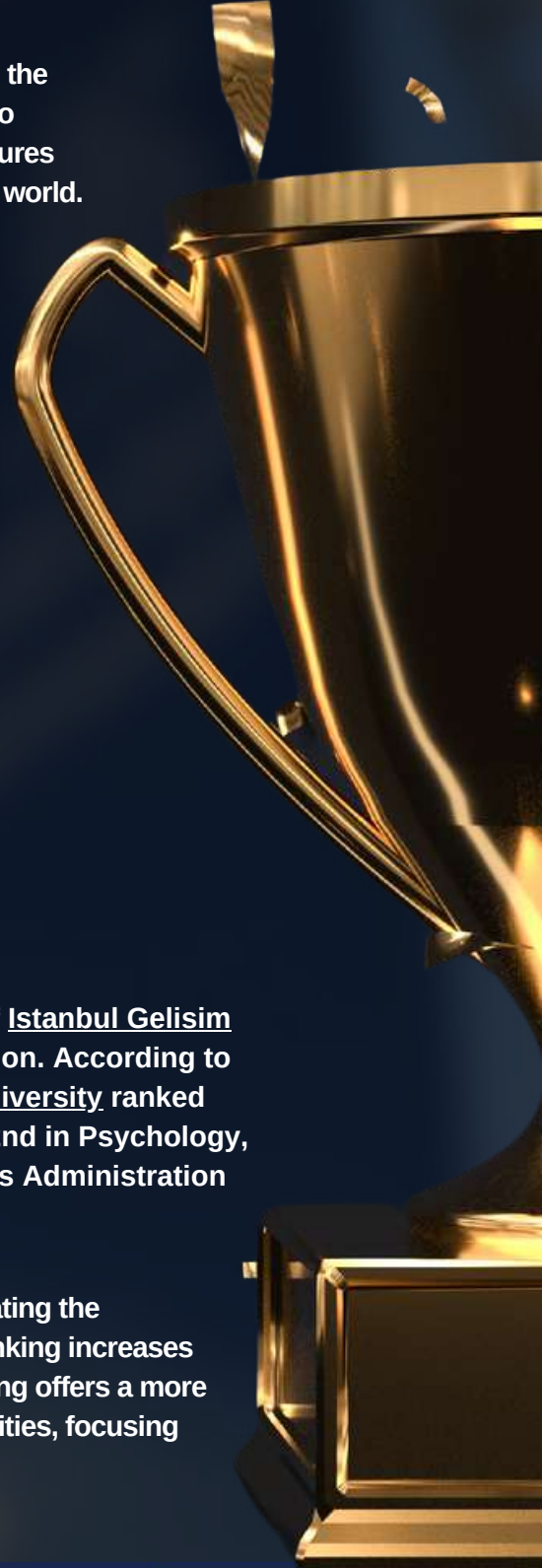
SCImago University Rankings has published its 2023 report, which ranks the research, innovation and social impacts of world universities according to percentiles. SCImago University Rankings is a ranking system that measures the social and scientific impact and innovation of universities around the world.

SCImago University Rankings aims to give a general idea about universities by measuring their performance in terms of research, innovation and social impact. The report published after the research can help students, academicians, researchers and other interested parties evaluate universities.

For students, this ranking helps them learn about the quality, effectiveness and prestige of a university in international education. For academic staff and researchers, this ranking provides information on the research activities and effects of universities in different disciplines.

The research performance of SCImago Turkey University Ranking of Istanbul Gelisim University, where multidisciplinary studies are intense, draws attention. According to the evaluation of SCOPUS research output data; Istanbul Gelisim University ranked 2nd in Law, 5th in Civil Engineering, 7th in Industrial Engineering, 32nd in Psychology, 9th in Engineering, 3rd in Environmental Science and 7th in Business Administration among the universities in Turkey.

SCImago University Ranking is very significant for measuring and evaluating the performance of universities, particularly in developing countries. This ranking increases the international recognition of universities in these countries. This ranking offers a more comprehensive perspective when measuring the performance of universities, focusing not only on research impact but also on social impact and sustainability.





SCImago Institutions Rankings

Area	World	Middle East	OECD	Turkey
Environmental Science	630	20	352	3
Business, Management and Accounting	1096	45	759	7
Engineering	1363	45	901	9
Civil and Structural Engineering	575	22	358	5
Industrial and Manufacturing Engineering	928	41	541	7
Economics, Econometrics and Finance	1592	97	979	26
Energy	1967	146	1117	27
Computer Science	2489	164	1516	29
Social Sciences				
Law	774	22	623	2
Sociology and Political Science	1355	42	1044	12
Geography, Planning and Development	1424	81	908	16

When the data of Istanbul Gelisim University in the Evolution of the Institute are analyzed, it is seen that the investment made by the university in scientific research has increased in recent years and the quality of its scientific output has increased as well. This is very crucial in terms of increasing the academic impact and social benefit of the university. Moreover, the increase in innovation capacity and the increase in interaction with the society are among the other factors that demonstrate the success of the university.

Significant success in the 'Accessible and Clean Energy' category from IGU!

World universities ranking organization Times Higher Education (THE) Impact Ranking was announced in 2023. In the ranking, Istanbul Gelisim University, among 1591 universities from 112 countries, achieved success by ranking 12th among Turkish universities in the "Accessible Clean Energy" category for the first time this year.

In the list of 1591 universities in the Times Higher Education (THE) 2023 ranking, the world's leading higher education rating agency based in the UK, the success of Istanbul Gelisim University (IGU) was graded in six different categories in line with the United Nations Sustainable Development Goals. IGU, which was included in the "Accessible Clean Energy" category for the first time in the Impact Ranking 2023 list, was ranked 12th among Turkish universities.



Rated in 6 different categories categories

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 was graded in 6 different categories with its studies in the field of education, innovative projects and contributions to society. IGU;

- Ranked 12th in Turkey in the SDG-7 Accessible and Clean Energy category, 201-300 worldwide,
- Ranked 12th in Turkey in the category of SDG10 Reducing Inequalities, 301-400 worldwide,
- Ranked 14th in Turkey and 401-600 worldwide in the category of SDG-8 Decent Work and Economic Growth and achieved significant success.

“We attach importance to sustainability studies in every field”

Abdulkadir Gayretli, Chairman of the Board of Trustees of Istanbul Gelisim University (IGU), who made statements about the ranking aimed at evaluating the effects of ecological, economic and environmental sustainability practices on society according to the United Nations 17 Sustainable Development Goals, said, "We attach importance to sustainability studies in all areas, especially environmental sustainability, by adopting the Sustainable Development Goals. While implementing practices for the effective use of natural resources, we continue our prominent works on 'Energy and Climate Change' by advancing with a universal sense of responsibility within the scope of energy and waste management. Under the leadership of YÖK President Prof. Dr. Erol Ozvar, we support the fact that universities are sustainable, energy-efficient, compatible with nature and minimally damaging to the environment, and we support the introduction of energy efficiency and renewable energy applications in university campuses. The rating we get in the Accessible and Clean Energy category is therefore very valuable to us. Within the scope of the 'Zero Waste Project' in our university, we fully believe that we will take part in higher levels in the coming years with more effective execution of the waste management system, interactive activities in the fields of rain harvesting, transportation, education and research."

The Book “Gastronomy Tourism in the Development of Tourism” is on the Shelves!

Assoc. Prof. Dr. Murat Doğan, Deputy Dean of Istanbul Gelisim University (IGU), Faculty of Fine Arts (GSF) and faculty member of the Gastronomy and Culinary Arts Department, took part as a chapter author in the book titled "Gastronomy Tourism in the Development of Tourism". The book, whose first edition was published in September 2023, discusses gastronomy tourism from different perspectives. The book, edited by Prof. Dr. Birol Saygı and Assoc. Prof. Dr. Gül Yılmaz includes a total of twenty-two authors and seventeen chapters from seventeen different universities. Assoc. Prof. Dr. Murat Doğan is the author of the ninth chapter of the book, "Green Cuisine, Sustainability, and Gastronomy".



[Click](#) to access the news source.

“High School Winter Academy 2024”; was Held



Organised by Istanbul Gelisim University (IGU) every year in the winter months, the High School Winter Academy met with students for the fifth time this year. Thanks to the academy, high school students received both applied and face-to-face trainings in the university environment. As the Faculty of Applied Sciences, we took part in the High School Winter Academy with different workshops together with our academicians. In this way, by raising awareness of students; personal development and professional interests, they contributed to their development and supported their career plans.

[Click](#) to access the news source.

Can Practicing Self-Compassion Help People Achieve Their Weight Loss Goals?

The process of losing weight is often a challenging experience because high-calorie and delicious foods are readily available. People can often tend to overeat contrary to what they want, which can cause them to stray from their goals. A study from the Center for Weight, Eating and Lifestyle Sciences (WELL Center) at Drexel University's College of Arts and Sciences examined whether practicing self-compassion helps people deal more effectively with overeating tendencies.

The study found that when participants practiced more self-compassion during binge eating situations, they experienced better mood in the following hours and better self-control over their eating and drinking behaviors. These findings suggest that self-compassion has the potential to promote healthier weight loss behaviors through a less depressing reaction to setbacks.

The researchers collected data on a group of 140 participants in a lifestyle change program. Participants responded to questionnaires on their phones on a daily basis, reporting whether they experienced dietary setbacks, such as unexpectedly overeating, consuming an undesirable food or eating at an undesirable time, and how they reacted to these setbacks.

The researchers also assessed participants' moods and asked how well they were able to maintain self-control over their eating and exercise behaviors based on their responses to post-surveys.

Researcher Hagerman stated that the process of weight loss and weight maintenance is challenging, "In reality, we live in an eating environment that sets us all up for failure. Practicing self-compassion, rather than self-criticism, is an important strategy for promoting resilience in the challenging process of weight loss."

Practicing self-compassion gives people the ability to better cope with setbacks, and they are less likely to stray from their goals, Hagerman says. "When you feel like criticizing yourself for your eating behavior, try thinking about how to talk to a friend or loved one instead," she says.

The research team hopes that these findings will lead to more effective outcomes that teach people how to practice self-compassion when they experience setbacks. They also aim to examine how practicing genuine self-compassion can help people stick to personal standards and goals. "There is a misconception that self-compassion can lead to self-forgiveness and a rejection of self-set goals, but we have shown that self-compassion and a sense of responsibility can work together," says Hagerman.

[Click](#) to access the news 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

"Electronic Circuits Project Exhibition" organised by Lect. İzzet YAVUZ, one of our Electricity Programme lecturers, was held.

The 36 projects of Aviation Electrical and Electronics and Electrical and Electronics Engineering students met with students and academicians at the "Electronic Circuits Project Exhibition". In the event supported by IGU Technology Transfer Office (IGU-TTO), it was seen that many of the students' projects were prepared for application to TEKNOFEST, one of Turkey's prestigious technology competitions.

At IGU, which advances with the vision of "Research University" and adopts a developing, productive, quality education approach in accordance with the age with its projects and collaborations by contributing to the production of new technologies, 36 projects of the students of the Department of Aviation Electrical and Electronics and Electrical and Electronics Engineering, carried out under the supervision of Lecturer İzzet Yavuz, met with students and academicians at the "Electronic Circuits Project Exhibition". In the exhibition, which started with the opening speech of IGU Rector Prof. Dr. Bahri Şahin, it was seen that while the students gained an important experience, many of their projects were prepared for application to TEKNOFEST, one of Turkey's prestigious technology competitions. The referee committee established by academicians from IGU evaluated the projects



With the support provided to the students by IGU-TTO, young engineer candidates had the opportunity to realise their creative projects. Rector Prof. Dr. Bahri Şahin, who made the opening speech, emphasised once again how much importance the university attaches to technological innovations with these achievements of the students. While the project exhibition demonstrated the students' ability to put academic knowledge into practice and produce solutions for the industry, it supported the university's technology-oriented education approach and gave students the opportunity to play an active role in the industry.



After the exhibition, the referee committee established by the academicians working at Istanbul Gelisim University evaluated the projects. The winners of the award were as follows;

1. Oğulcan Demir- Public Transport Vehicle with Overhead Line Transmission
2. Ahmet Necip Arıca- Eren Yılmaz- Topographic Map Drawing with Drone
3. Murat Yaman- Talha Gürgöze- Remote Controlled Radar Marine Vehicle

Jury Honourable Mention Award

1. İrem Türkyılmaz- Kaan Irmak- Ege Tez > Smart Greenhouse
2. Mustafa Sencer Kaçar > Line Following, Obstacle Avoidance and Manual Driving Vehicle
3. Salih Şen - Object Tracking





IGVS February Appointments



Lect. Sehmus TURAN has been appointed as “Lecturer” in Istanbul Gelisim Vocational School Electronics Technology Program.



Lect. Halis Egemen MERDAN has been appointed as “Lecturer” at Istanbul Gelisim Vocational School, Department of Sports Management.



Lect. Vefa Sumeyye KORKMAZ has been appointed as “Lecturer” in Istanbul Gelisim Vocational School Air Logistics Program.



Lect. Atilla AKALIN has been appointed as “Program Head” for Istanbul Gelisim Vocational School Public Relations and Promotion Program.

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R & D



The scientific research project titled "Calculation of the Carbon Footprint of Istanbul Gelisim University Tower Building and Short, Medium and Long Term Load Forecasting with Artificial Intelligence Methods", which is carried out by Assoc. Prof. Dr. Lokman KANTAR, Director of IGVS, and our professors Assoc. Prof. Dr. Bahtiyar DURSUN , Lect.Sena TAŞ, Lect. Ali ÇETİNKAYA, Lect.Sena Nur BENLİ, Lect. Çisem YAŞAR, Assist. Prof. Dr. Ercan AYKUT, Lect. Kübra ERDOĞAN, Lect.Tuğba SARAY ÇETİNKAYA are also involved as researchers, has been accepted. We congratulate our professors.



The article "Exploring the Mediating Role of Student Commitment in the Relationship between Life Satisfaction and General Well-being in University Students" by IGVS Assistant Director Ph.D. Faculty Member Güfte CANER AKIN has been published in Environment and Social Psychology (Scopus). The access link is below. (Article ID: 2177 Vol 9, Issue 5, 2024)

- <https://esp.apacsci.com/index.php/esp/article/view/2177>



ISTANBUL GELİŞİM ÜNİVERSİTESİ
KULE BİNASININ KARBON AYAK İZİNİN
HESAPLANMASI VE YAPAY ZEKA YÖNTEMLERİ İLE
KISA, ORTA VE UZUN DÖNEM
YÜK TAHMİNİ GERÇEKLEŞTİRİLMESİ
Bilimsel Araştırma Projesi

Proje Yürütücüsü
Doç. Dr. Lokman KANTAR

Araştırmacılar

Doç. Dr. Bahtiyar DURSUN
Öğr. Gör. Sena TAŞ
Öğr. Gör. Ali ÇETİNKAYA
Öğr. Gör. Sena Nur BENLİ

Öğr. Gör. Çisem YAŞAR
Dr. Öğr. Üyesi Ercan AYKUT
Öğr. Gör. Kübra ERDOĞAN
Öğr. Gör. Tuğba SARAY ÇETİNKAYA

IGVS Computer Technology Program lecturer Metin Şahin's "science fiction - science" genre book titled "From Real Intelligence to Live Intelligence and Artificial Intelligence" was published. Our lecturer was entitled to receive the "Golden Book" award from the "Book Culture Art Times Newspaper" with his book. The award ceremony will be held on May 25, 2024 at Mihrabat Korusu, Kanlıca, Istanbul.

- <https://cinius.shop/product/gercek-zekadan-canli-zekasina-ve-yapay-zekaya/>



Assist. Prof. Dr. Kaan KOÇALI, one of the academicians of the IGVS, Occupational Health and Safety Program, received the "Academic Research Impact Award" in the field of "Social Sciences" at the "International Research Awards on Science, Health and Engineering" event held in India.

- <https://shen.sciencefather.com/kaankocali-occupational-health-and-safety-academic-research-impact-award-11762/>

Under the leadership of our university, in cooperation with Yıldız Technical University and Marmara University, the application for Basic PLC Training within the scope of TÜBİTAK 2237-A Scientific Training Activities Support Program has been entitled to be supported.

Basic PLC Training started on February 5, 2024 at 10:00 am. Details of the training, which will continue until 11.02.2024 at the Faculty of Engineering and Architecture (MMF) Machinery / Industrial Automation Laboratory, are available on the website <https://temelplcegitimi.weebly.com>.

We congratulate the academicians in the project team and wish them continued success.

Project Team:

- Assist. Prof. Ercan AYKUT (Istanbul Gelisim University)
- Lecturer Sena TAŞ (Istanbul Gelisim University)
- Lecturer Kübra ERDOĞAN (Istanbul Gelisim University)
- Lecturer M. Cihat MUMCU (Istanbul Gelisim University)
- Lecturer İzzet YAVUZ (Istanbul Gelisim University)
- Res. Asst. Kenan SAVAŞ (Marmara University)
- Res. Asst. Şeyma DERDİYOK (Yıldız Technical University)



SOCIAL CONTRIBUTION



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

The Relationship between High Technology Product Exports and Economic Growth

Lect. Enes SÜMER
Foreign Trade Program

Competition among countries, technology and globalization significantly affect the economic growth performance of developing and developed countries. Considering global effects in all aspects, countries attach great importance to foreign trade and try to achieve their economic growth and development goals by increasing their exports[1].

Based on the theory that exports will have a positive impact on economic growth, countries implement policies to increase their exports. However, increasing exports only quantitatively cannot achieve the desired level of economic growth performance. In this framework, the quality of exports, in other words, which products are exported and the technological intensity of products are of great importance[2].

In the Global Innovation Index 2023 report published by the World Intellectual Property Organization (WIPO), the ratios of countries' high technology exports to trade volume are presented. According to this report, the top five countries with the highest ratio of high technology exports to trade volume as of 2023 are Malaysia, the Philippines, Vietnam, Singapore and China. Turkey ranks sixtieth in this list[3].

Another important data that will give an idea about the high-tech product export performance of countries is the share of high-tech product exports in total manufacturing industry exports. According to the World Bank's data on the share of high-tech product exports in total manufacturing industry exports for 2022, Turkey ranks well behind both developed and developing countries. This ratio (for 2022) is 3.61% in Turkey, 19.40% in high-income countries and 18.84% in upper middle-income countries, including Turkey.

Foreign trade data by technology intensity cover manufacturing industry products in the ISIC Rev.4 classification. According to TUIK foreign trade data, the share of manufacturing industry products in total exports by 2023 (according to ISIC Rev.4) is 94.2%. By 2023, the share of manufacturing industry products in total imports is 80.7%.

Table 1 presents the foreign trade composition of manufacturing industry products by technology intensity for the Turkish economy in 2023.

Table 1: 2023 Foreign Trade Composition of Manufacturing Industry Products by Technology Intensity of Turkish Economy

Year	Low Technology Product Exports		Medium Low Technology Product Exports		Medium High Technology Product Exports		High Technology Product Exports		Total Value
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	
2023	74,446	30,9	69,357	28,8	88,091	63,5	9,130	3,8	241,024
Year	Low Technology Product Imports		Medium Low Technology Product Imports		Medium High Technology Product Imports		High Technology Product Imports		Total Value
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	
2023	32,645	11,2	102,775	35,2	125,294	42,9	31,184	10,7	291,898

Source: TUIK.

Note: The value is in million US dollars.

As seen in Table 1, the foreign trade deficit of the Turkish economy in manufacturing industry products by technology intensity as of 2023 is approximately 50 billion 874 million dollars. In 2023, the foreign trade deficits of the products subject to manufacturing industry foreign trade according to technology intensity are as follows: high technology products -22 billion 54 million dollars, medium high technology products -37 billion 203 million dollars, medium low technology products -33 billion 418 million dollars. On the other hand, a foreign trade surplus of 41 billion 801 million dollars was realized in low technology products.

Table 1 shows that as of 2023, the Turkish economy had a foreign trade deficit in products other than low-tech products. In this framework, it is possible to say that the Turkish economy has a foreign trade surplus in low-tech products among manufacturing industry products, i.e. it is a net exporter in these products, while it has a significant foreign trade deficit especially in high and medium-high technology products, i.e. it is a net importer in these products.

By 2023, the share of high-tech products in Turkey's exports of manufacturing industry products is 3.8%. Exports of medium and low-tech products generate low foreign currency earnings. On the other hand, the share of high-tech products in Turkey's imports of manufacturing industry products by 2023 is 10.7%. A high amount of foreign currency is paid for these. The concentration of the Turkish economy's export structure in low-tech, non-branded products constitutes a significant economic problem and causes Turkey to move away from the targeted stable, sustainable economic growth and development performance. The most effective way to solve this problem is to increase the quality of production and thus exports by focusing on science and R&D investments[4].

- [1] Yılmaz Ö. ve Albayrak M. (2023). Türkiye'de Dış Ticaretin Ekonomik Büyüme Üzerindeki Etkisinin Ampirik Analizi. Uluslararası İktisadi ve İdari İncelemeler Dergisi, 38, 89-107.
- [2] Kundak, S., ve Aktop, V. S. (2023). Yüksek Teknolojili Ürün İhracatının Ekonomik Büyüme Etkisi: Seçilmiş OECD Ülkelerinde Panel Veri Analizi. Uluslararası Yönetim İktisat ve İşletme Dergisi, 19(3), 445-470.
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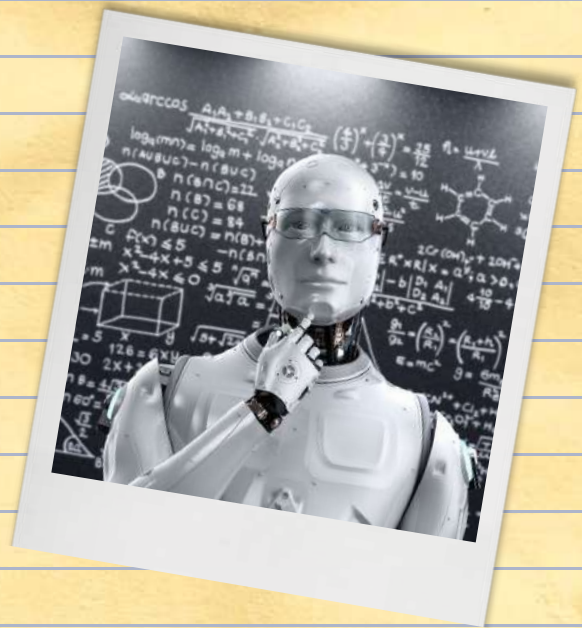


APPLICATION OF MACHINE LEARNING TECHNIQUES IN GREEN BUILDINGS

Lect. Nevzat Yağız TOMBAL
Electrics Program

Due to the climate crisis experienced worldwide in recent years, measures have started to be taken one after another in the energy sector. Events such as changes in average temperatures due to global warming, wastes generated during energy production, depletion of natural resources have led to the necessity of establishing some standards in the energy sector. For this reason, environmentally friendly systems have started to take place in the foreground and as a result, the concept of green building has emerged. Green buildings are also referred to as sustainable buildings, ecological buildings or energy efficient buildings. These terms mean that buildings exhibit high performance throughout their lifetime and cause little damage to the environment. The energy consumed by buildings currently accounts for more than 40 per cent of total primary energy consumption worldwide. One of the most important steps to optimise energy consumption in a building is energy analysis.

In recent years, data science and machine learning have come to the forefront in building energy analysis. Predicting building energy loads is an application of big data science. Many factors such as lighting, air conditioning, comfort range and environmental effects are effective in building energy analysis. Depending on these conditions, analyses such as building load estimation, determination of the relationship between energy load and consumption can be performed. Options such as classification, regression or clustering can be used according to the type of analysis to be performed.



Optimising energy use with machine learning and deep learning techniques applied in green buildings is one of the most important steps to prevent future environmental problems. For this reason, improvements in related analysis methods are observed day by day. Machine learning techniques, which can provide permanent and effective energy optimisation solutions by melting independent inputs such as environmental factors, human factors and material structure in a single pot, have a very important place in leaving a beautiful living space to future generations with the increasing use of green buildings.

CLUBS

TALK!

IGU MARITIME
CLUB

Our Maritime Club was established in 2015 by the students of IGVS Maritime and Port Management Program and started to operate actively. The Maritime Club carries out activities in order to connect students with the maritime sector, to maximize their love and interest in maritime, to create awareness in the field of maritime, to ensure unity and to create various social and cultural activities and sharing in this context. Within the scope of social and cultural activities, the Maritime Club aims to create sustainable ties with sector stakeholders in order to provide students with information about the maritime sector, to instill maritime culture, to make teamwork common, to develop analytical thinking skills and to gain the ability to solve problems that may arise in the maritime sector. In this context, it is aimed to organize various activities with valuable stakeholders in the maritime sector during the academic year in order for our students to get to know the sector closely and to determine the appropriate careers for themselves in this context. In line with career goals, the maritime sector offers a wide range of job opportunities.



Port companies, ship chartering and brokerage, forwarder companies, ship agency, marina and yacht companies, provisioning companies, shipyards and customs companies can be given as examples. In the activities organized within the scope of the Maritime Club, our students can find suitable internship places in line with their goals and follow the sector closely. In this context, it contributes to the reinforcement of the theoretical knowledge gained by our students during the education period, the recognition of business life and the development of business relations.

Our maritime club also participates in the activities of the Maritime Students Association (DÖDER). DÖDER is an association established for the students of maritime faculties, vocational schools and maritime vocational high schools to create unity and carry out activities on a platform.

The Maritime Club also organizes technical trips within the scope of the courses in the Maritime and Port Management Program. The aim of the technical trips is to show and introduce the information related to the students' own fields on site and to reinforce their professional knowledge.



The Maritime Club organizes "Welcome" parties for our students who have started the new academic year. Newly enrolled students are introduced to the social opportunities of our school. At the same time, an environment is created where they can share with the students of the next semester and create unity. In addition to the Maritime Club activities, our club encourages our students to participate in personal development seminars, entrepreneurship training and orientation activities, CV preparation seminars, etc.

IGU Maritime Club students, who have organized many activities in their field since its establishment, have also contributed to social responsibility projects. In the new term, it is aimed to organize corporate social responsibility projects and activities that can create social awareness among students in the maritime field.



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