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ENGINEERING FACULTY

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CONFERENCE

The 2nd International Conference on the Role of Climate Change on Water Resources Management for a Sustainable Future (ICC2025) was held in Tashkent on May 22–23, in collaboration between the Faculty of Engineering at Istanbul Aydın University (IAU) and Tashkent State University of Transport. The conference featured contributions from 69 researchers representing nine different countries, with a total of 31 papers presented across four separate sessions. From our university's Faculty of Engineering, Prof. Dr. Rafet Akdeniz, Prof. Dr. Zafer Aslan, and Prof. Dr. Haydar Özpınar served as session chairs, participated in the organizing committee, and presented papers in their respective fields.



SEMINAR

The seminar titled "Skills Needed for Syrian Youth to Navigate the Age of Artificial Intelligence" was presented by Dr. Abdulkader Alwer, a faculty member at the Faculty of Engineering, Istanbul Aydın University. The event was held with the participation of the Vice-Rector for Scientific Affairs, the Dean of the Faculty of Engineering, and the Dean of the Faculty of Economics and Administrative Sciences at Al-Wataniya Private University, along with many academic and administrative staff members. The strong interest and active participation of the students added special value to the event. This engagement can be seen as a reflection of the shared commitment to strengthening scientific cooperation between Turkish and Syrian universities. The seminar provided a productive platform for discussing the opportunities offered by developments in artificial intelligence and the role of youth in this field.





ACADEMIC STUDY

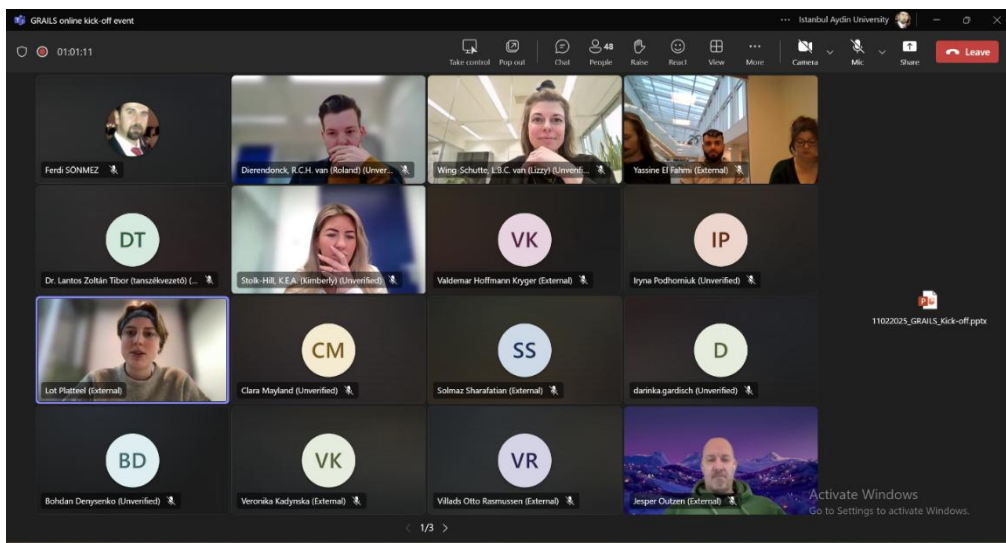
Assoc. Prof. Dr. Hasan Volkan ORAL served as session chair and moderator at the event held on May 21, 2025, at the İzmir Chamber of Commerce, organized within the scope of COST Action 22110.

On May 26, 2025, he participated as a jury member in the PhD qualifying examination conducted by the Department of Environmental Engineering at Middle East Technical University.

On May 28, 2025, he attended the 2nd Workshop Preparation Meeting organized online by the Association for Nature-Based Solutions and Sustainability Practices (DOSUDER), of which our university is a founding member.

PROJECT

Prof. Dr. Ferdi SÖNMEZ, Head of the Software Engineering Department, has been reappointed as an Advisor to the European Union Framework Programs under the TÜBİTAK Directorate of International Cooperation. He has also been assigned as an Expert Evaluator for four EIC projects by the COST Association. In addition, he fulfilled six duties as a reviewer/monitor for TÜBİTAK TEYDEB projects during April and May. With three projects under his supervision, he has been invited by Rotterdam University to represent Istanbul Aydın University and Turkey in the finals of the international GRAILS competition to be held in June. We congratulate our professor on his achievements.





Software Engineering students advanced to the finals of the international GRAILS competition

A team of undergraduate and graduate students, supervised by Prof. Dr. Ferdi SÖNMEZ, has been invited to represent Istanbul Aydın University and Turkey in the finals of the GRAILS competition to be held at Rotterdam University in June with their artificial intelligence (AI) project. GRAILS (The Global Responsible AI League for Students) is an annual competition that brings together students, researchers, and enthusiasts from around the world to develop AI solutions focused on ethics, responsibility, and sustainable impact.



CONVERSATION

On 26 May 2025, we had the honor of hosting one of Turkey's most prominent industrialists, Mr. Adnan DALGAKIRAN, as a guest of the Faculty of Engineering. He delivered highly valuable insights during a talk titled "Industry Expectations from Engineering and the Future of Engineering Education," which was attended with great interest by our faculty members and students.





INDUSTRIAL ENGINEERING DEPARTMENT ACTIVITIES

On 6 May 2025, we had the pleasure of hosting Mr. Şems Hakan SÖNMEZ as a guest speaker for a talk titled "Interview Techniques in Job Interviews."



"İŞ GÖRÜŞMELERİNDE MÜLAKAT TEKNİKLERİ"

Etkinliğimizde İnsan Kaynakları Danışmanı ve Endüstri Yüksek Mühendisi Şems Hakan Sönmez bize eşlik edecektir. CV hazırlama eğitimi yapılacak, mülakat tekniklerinden bahsedilecek ve mülakat simülasyonu yapılacaktır.

**Şems Hakan
SÖNMEZ**

07 MAYIS 2025

13:00-15:00

Turuncu Salon



On 8 May 2025, we had the privilege of hosting Mr. İbrahim Betil, a distinguished figure in the field of NGOs in Turkey and around the world. He delivered an inspiring talk titled "The Contribution of Universities to Society and Volunteering."





On 24 May 2025, we had the pleasure of hosting Dr. Fechete Flavia, Dr. Urdea Mihaela, and Dr. Clinciu Romana, faculty members from the Department of Industrial Engineering at Braşov University, Romania, within the scope of the Erasmus program in our department.



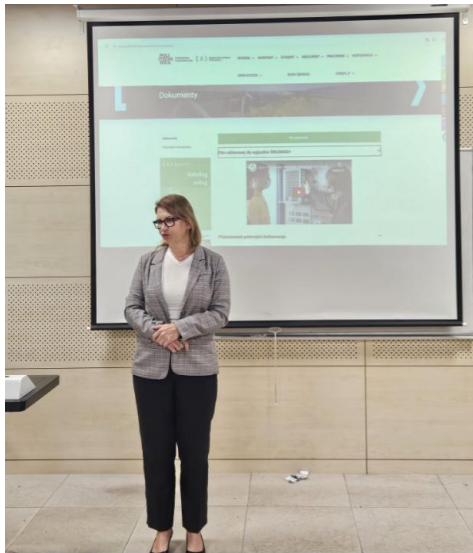
On 28 May 2025, the TedX 2025 event was held with the contributions of the Industrial Engineering Club students.





ERASMUS+ TEACHING MOBILITY

On 29 May 2025, Assoc. Prof. Dr. Magdalena Zabochnicka from Czestochowa University of Technology, Poland, delivered a lecture to the Civil Engineering (English) students.



**LATEST ACADEMIC PAPERS****Prof. Dr. Yusuf Cengiz TOKLU**

Bekdaş, G., Ocak, A., Nigdeli, S. M., Toklu, Y. C., Kim, S., & Geem, Z. W. (2025). Total Potential Optimization Using Metaheuristic Algorithms for Analysis of Structural Systems. In *Optimization Methods for Finite Element Analysis and Design*. Eds.: Ed. Kale, I.R., Bureerat, S., Rao, R.V.; CRC Press. ISBN: 978-1-032-93210-1

Assoc. Prof. Dr. Hüseyin Çağan KILINÇ

Yaseen, Z.M., Halder, B., Tan, M.L. et al. Climate change impact analysis on seasonal drought and landforms using meteorological and remote-sensing-derived indices. *Acta Geophys.* (2025). <https://doi.org/10.1007/s11600-025-01585-7>

Assoc. Prof. Dr. Nima MIRZAEI

A Feature Selection Approach Based on Information Theory with Application to the International Monetary Fund and World Bank Economic Datasets *INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING* arrow_drop_down DOI: 10.1142/S0219622025500427 WOS:001477405800001

Assist. Prof. Dr. Elif ÇAKIR

Bekiroglu, Hatice, Cakir, Elif, Dertli, Enes and Sagdic, Osman. "Development of functional almond milk beverage with probiotic *Lactiplantibacillus plantarum* and *Lactiplantibacillus brevis* bacteria" *International Journal of Food Engineering*, vol. 21, no. 5, 2025, pp. 331-341. <https://doi.org/10.1515/ijfe-2024-0154>

Assist. Prof. Dr. Mert BÜYÜKDEDE

Büyükdede, M., & Kılıç, D. (2025). High-Quality Synthetic Image Generation for Accurate Classification of Brain Tumors Using ACGAN, *International Congress on Human-Computer Interaction, Optimization and Robotic Applications (ICHORA 2025)*, Oral Presentation, 23-24 May 2025, Ankara.

Assist. Prof. Dr. Mahmoud M S ZIADA

Ziada M, Tanyildizi H, Coskun A, Seloglu M. The effect of polypropylene fiber on hardened and fresh properties of underwater geopolymer mortar. *Structural Concrete*. 2025. <https://doi.org/10.1002/suco.70130>

**Assist. Prof. Dr. Kaveh DEGHANIAN – Res. Assist. Gamze MADEN MÜFTÜOĞLU**

Gamze Maden Muftuoglu, Kaveh Dehghanian, Soil liquefaction assessment using machine learning, Artificial Intelligence in Geosciences, Volume 6, Issue 1, 2025, 100122, ISSN 2666-5441, <https://doi.org/10.1016/j.aiig.2025.100122>.

Assist. Prof. Dr. Rabia Nur ÖNDEŞ

Ondes, R.N. (2025). Effects of STEM practices on students' problem-solving skills: A meta-analysis. International Journal of Education in Mathematics, Science, and Technology (IJEMST), 13(2), 439-461. <https://doi.org/10.46328/ijemst.4697>

Assist. Prof. Dr. Roa'a Alı Abdullah Mohammedqasem - Assist. Prof. Dr. Hayder Alı Abdullah Mohammedqasım

International Conference on Machine Learning and Data Engineering (ICMLDE). Published in: Procedia Computer Science, Volume 258 (2025), Pages 1326–1337.

Res. Assist. Mazem YILMAZ

The effect of ohmic heating on alkali-activated blast furnace slag-fly ash concrete with marble powder replacement, Mazem Yılmaz, Mücteba Uysal, 4th International Civil Engineering & Architecture Conference (ICEARC'25)

Res. Assist. Sümeyya AYÇA

S. AYCA & I. DINCER, Life cycle environmental impact assessment and review of hydrogen fuels obtained from various sources for vehicles, International Journal of Hydrogen Energy, 2025, 03603199, 127, 265-274.

S. AYCA & İ. DİNCER, CdTe DOPED ZnO COATED ELECTRODES FOR PHOTOELECTROCHEMICAL HYDROGEN PRODUCTION, Sözlü Sunum, International Conference on Energy Systems, 11 May 2025, 14 May 2025.

S. AYCA & İ. DİNCER, Ga-DOPED ZnO COATING ON STAINLESS STEEL FOR HYDROGEN PRODUCTION BY PHOTOELECTROCHEMICAL METHOD, Sözlü Sunum, 9th International Hydrogen Technologies Congress (IHTEC-2025), 25 May 2025, 28 May 2025.