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ENGINEERING FACULTY

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AWARD CEREMONY

At the opening ceremony of the 23/24 academic year, Prof. Dr. Hasan Alpay HEPERKAN, Prof. Dr. Beşir ŞAHİN, Dr. Hasan Volkan ORAL, Dr. Süleyman ŞİMŞEK, and Dr. Meral YILDIRIM YALÇIN from the Faculty of Engineering received their awards from our Minister of Industry and Technology, Mr. Mehmet Fatih KAÇAR.



CONFERENCE

Our Computer Engineering department professor, Prof. Dr. Zafer ASLAN, participated as an invited speaker in the 'Inclusiveness Through Internationalization of Education' conference, which took place on October 10, 2023, during GES 2023, Session 3 at Chandigarh University, INDIA. Additionally, our professor served as the session chair in the session titled 'CBRN Threat and General Approaches' organized in collaboration with Istanbul Aydın University (IAÜ) Center for Environment and Human Health and the CBRN Defense Policies Development Association on October 20, IAÜ, Istanbul CBRN Days Symposium.





VISITING

Dr. Ancuța ROTARU, who came to our university's Department of Civil Engineering as part of the Erasmus program from Gheorghe Asachi Technical University of Iași, held meetings with the Turkish Program Chair of the Department of Civil Engineering, Dr. Kaveh DEHGHANIAN, and the English Program Chair, Dr. Tevfik Denizhan MÜFTÜOĞLU, to discuss common conferences and academic collaborations. During the meetings, an exchange of ideas related to joint conferences and academic studies took place.



ANALYSIS SUMMIT

The Food Engineering program organized a Sensory Analysis Summit in the context of World Food Day on October 19th.





PROJECT ACCEPTANCES

"Four research projects conducted under the supervision of Dr. Necip Gökhan KASAPOĞLU from the Electrical and Electronics Engineering department have been accepted as part of TÜBİTAK 2209-A University Students Research Projects.

1. Kerem ÇİNİ - Sensor Data Fusion for Simultaneous Localization and Mapping with Lidar and Ultrasonic Sensors on FPGA Platform.
2. Ramazan TEKİN - Image Processing-Based Optical Target Detection and Tracking System.
3. Melih ÇELİK - Visible Light Communication for Underwater Applications.
4. Emre BÜYÜKBAY - Image Processing-Based Assistant Application for Visually Impaired Individuals."

The project team consisting of Azize AKTAN, Barış TÜRKMEN, Melikenur BAKIRHAN, Amen Gerald MGAYA, and Buğrahan NALBANT, supervised by Dr. Necip Gökhan KASAPOĞLU from the Electrical and Electronics Engineering department, has been accepted into the 2023-2024 TUSAŞ-LIFTUP Industry-Focused Undergraduate Thesis Program. Their project is titled 'Applications of Wired and Wireless Optical Communication Systems in Aviation and Space Systems.

COST LIASIE ACTION

Dr. Hasan Volkan ORAL has been appointed as the Chair of the Management Committee and Working Group 2 Leader of the COST LIASIE Action.



LATEST ACADEMIC PUBLICATIONS

1) Prof. Dr. Abdulhadi BAYKAL

Rehman, S.; Jermy, B.R.; Rather, I.A.; Sabir, J.S.M.; Aljameel, S.S.; Almessiere, M.A.; Slimani, Y.; Khan, F.A.; Baykal, A. Pr³⁺ Ion-Substituted Ni-Co Nano-Spinel Ferrites: Their Synthesis, Characterization, and Biocompatibility for Colorectal Cancer and Candidaemia. *Pharmaceuticals* 2023, 16, 1494. <https://doi.org/10.3390/ph16101494>

2) Prof. Dr. M. Nafiz DURU

Sanayi Devrimi Öncesi Sosyoekonomik Yapı ve Devrimin Oluşumu, İstanbul Aydın Üniversitesi, 2023

3) Assoc. Prof. Dr. İlham HUSEYINOV –Dr. Wasim RAED

An IoT-based Smart Home for Elderly suffering from Dementia, 8th International Conference on Smart City Applications, 2023

4) Assist. Prof. Dr. Hasan Volkan ORAL

An Example of Kriging Method based on Environmental Temperature for Altitude Mapping Using ArcGIS Software

5) Assist. Prof. Dr. Hafez KEYPOUR

Ayasofya'nın Tarihi Boyunca Ana Kubbesine Yapılan Müdahaleler ve Bir Koruma Önerisi (Bildiri)

6) Assist. Prof. Dr. Mahmoud ZIADA

Bacteria-Based Crack Healing of Nanosilica and Carbon Nanotube Modified Engineered Cementitious Composites, *Journal of Materials in Civil Engineering*

7) Assist. Prof. Dr. Seda KARATEKE

Customer segmentation-based basket analysis with association rule mining combined with SVD and K-Means algorithms, *Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı*, 2023

Parametrized Hyperbolic Tangent Induced Banach Space Valued Ordinary and Fractional Neural Network Approximation, *Progress in Fractional Differentiation and Applications*, 2023



8) Assist. Prof. Dr. Süleyman ŞİMŞEK

Simsek, S., et al.: Effects of Six Sigma Implementation on Occupational Health, THERMAL SCIENCE: Year 2023, Vol. 27, No. 4B, pp. 3361-3372

Simsek, S., et al.: Comparison of the Efficiency of Wind Power Plants, THERMAL SCIENCE: Year 2023, Vol. 27, No. 4B, pp. 3171-3177