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ENGINEERING FACULTY

e - Newsletter

October / 2024

Issue: 25



INTERNATIONAL WORKPLACE ACCIDENTS CARTOON COMPETITION

The award ceremony for the International Construction Industry Workplace Accidents Cartoon Competition was held on October 24 with a large turnout.



WORKSHOP

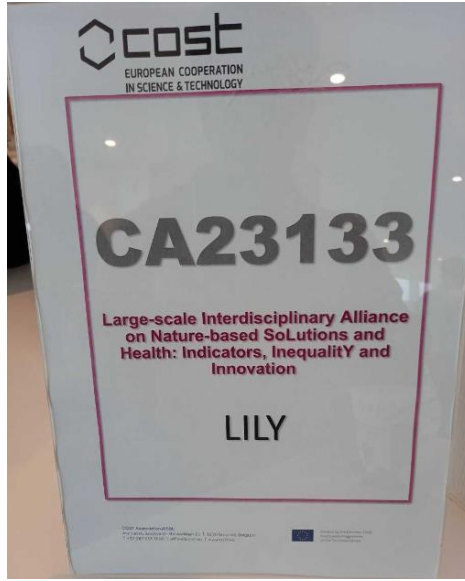
Assoc. Prof. Dr. Hasan Volkan ORAL organized a workshop at Dokuz Eylul University on October 8 for the Tubitak COST project he is leading.





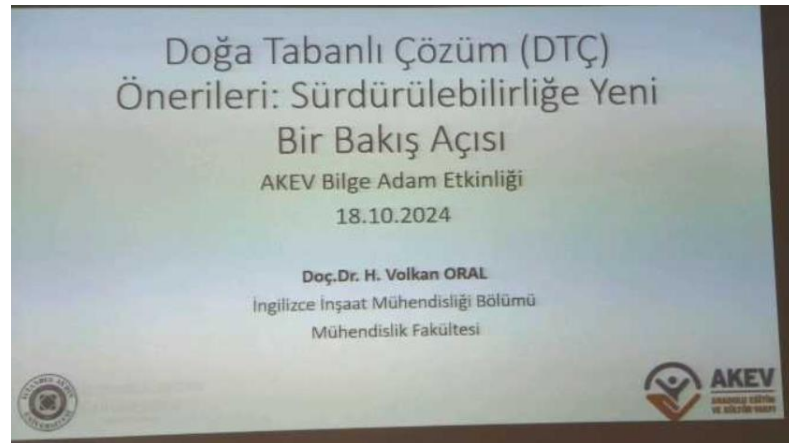
COST LILLY ACTION

Assoc. Prof. Dr. Hasan Volkan ORAL participated in the COST LILLY action held in Brussels on October 21.



NATURE-BASED SOLUTION COURSE

Assoc. Prof. Dr. Hasan Volkan ORAL delivered a training on Nature-Based Solutions under the AKEV Wisdom Program on October 18.





VISITING

Prof. Dr. hab. Agata Rosińska, Dr. hab. inż. Krzysztof Fijałkowski, Dr. inż. Anna Kwarciak-Kozłowska, and Dr. inż. Iwona Kupich from the Faculty of Infrastructure and Environment at Częstochowa University of Technology visited the Civil Engineering English Program and gave a two-hour lecture in Dr. Tevfik Denizhan Müftüoğlu's "Water Resources Engineering" class. During their visit, they also toured our Civil Engineering laboratories, and it was decided to pursue collaboration in joint academic research areas.



Prof. Dr. Agostina Chiavola from the Department of Civil Engineering at Sapienza University visited the Civil Engineering English Program and gave a two-hour lecture in Dr. Tevfik Denizhan Müftüoğlu's "Statics" class.





TUBITAK Project Acceptance

Dr. Melda YÜCEL, a faculty member in the Department of Civil Engineering, has been accepted as a researcher for the TÜBİTAK 1001-UDAP (National Earthquake Research Program) project. Congratulations to our professor! (Project Title: "Evaluation and Risk Analysis of the Impacts of Liquid Waste from Health Facility Debris in the Aftermath of a Possible Istanbul Earthquake in Terms of Environmental Geotechnics and Debris Removal Plans")



BOOK 2nd EDITION

The book on energy efficiency and ecology, edited by Assoc. Prof. Dr. Hasan Volkan ORAL, has entered its 2nd edition.





WISDOM PROGRAM

As part of the Wisdom Program, a lecture on rainwater harvesting was conducted by Dr. Tevfik Denizhan MÜFTÜOĞLU for older, more experienced participants.



ORIENTATION

A comprehensive orientation program has been organized for new students joining the Department of Civil Engineering.





ONLINE EXCEL COURSE

Online Excel courses have started to be offered to civil engineering students by Dr. M. Gamal AL HAGRI, a faculty member in the Department of Civil Engineering.



ACTIVITY

On October 3, an event related to academic studies was organized with the participation of our Vice Rectors, Prof. Dr. Ali SINAĞ and Prof. Dr. Zafer ASLAN, our Dean Prof. Dr. Hasan Hüseyin BALIK, and faculty members from the Faculty of Engineering.





LATEST ACADEMIC PUBLICATIONS

Prof. Dr. Abdulhadi BAYKAL

Nageshwari, M., Kumari, C. R. T., Kamaraj, T., Chithambaram, V., Dinesh, A., Caroline, M. L., ... & Baykal, A. (2024). Growth and optically active third-order nonlinear optical material: nicotinic acid as optical limiters. *Journal of Materials Science: Materials in Electronics*, 35(26), 1754.

Baykal, A., Caliskan, S., Almessiere, M. A., Güngüneş, H., Korkmaz, A. D., Slimani, Y., ... & Baig, U. (2024). Cr-Sc co-substituted nickel-cobalt nanospinel ferrites: An investigation of their structural, magnetic properties and hyperfine interactions. *Materials Chemistry and Physics*, 328, 129963.

Alghofaili, F., Tombuloglu, H., Almessiere, M. A., Akhtar, S., Tombuloglu, G., Turumtay, E. A., ... & Baykal, A. (2024). Fine-tuning the element dose in nanoparticle synthesis is the critical factor determining nanoparticle's impact on plant growth. *Plant Physiology and Biochemistry*, 216, 109110.

Prof. Dr. Beşir ŞAHİN

Besir Sahin, Çetin Canpolat and Mehmet Bilgili, (2024), Flow data forecasting for the junction flow using artificial neural network, *Flow Measurement and Instrumentation* 100 (2024) 102703, 1-22

Majid Amani-Beni, Mahdi Tabatabaei Malazi, Besir Sahin and Ahmet Selim Dalkılıç (2024), Effects of facades positioned at different angles on building thermal performance and flow behaviors, *Journal of Frontiers of Architectural Research*, 1-15

Prof. Dr. Rafet AKDENİZ

Igor Kotenko, Ghina Ozdemir, Mhd Wasim Raed, Lham Huseyinov, Elena Fedorchenko and Rafet Akdeniz, "Insurance Claims Fraud Detection Based on Machine Learning", IITI'24, Intelligent Information Technologies for Industry, November 1 – 7, 2024, Shanghai-Harbin, China.

Fatima Zohra Boulanouar, Mhd Wasim Raed, Ilham Huseyinov, Rafet Akdeniz, Igor Kotenko and Elena Fedorchenko, "Classification of Mental Stress using an Explainable Machine Learning Approach", IITI'24, Intelligent Information Technologies for Industry, November 1 – 7, 2024, Shanghai-Harbin, China.



Prof. Dr. Zafer ASLAN

Bulut, Yağış Oluşumu, Şiddetli Hava Olayları, Have-Deniz-Kara Etkileşimi, (Sayyib ve Vabil'in Bilimsel Yorumu), Prof. Dr. Zafer ASLAN, (İstanbul Aydın Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü) ve Doç. Dr. Bahtiya EFE (İstanbul Teknik Üniversitesi, İklim Bilimi ve Meteoroloji Mühendisliği Bölümü)

Kur'an ayetleri ve Bilimsel Veriler Işığında Arz: II inci Uluslararası Sempozyum, Arz'ın Unsurları: Denizler (II) toplantısında oturum başkanlığı Oturum Başkanı Prof. Dr. Zafer ASLAN

NATO CUBE4ENV uluslararası proje Türkiye Proje Koordinatörü olarak, proje çalışmayı gerçekleştirmiştir.

O. Sawalha, A. Dwikat, N. Ahmed, S. Mola, Z. Aslan and M. Yeter Comparing Model Results for Prediction Temporal Variation of SST and Rainfall Rate, 23-25 Ekim, 2024, , 11th. International Symposium on Atmospheric Sciences, ITU, Türkiye.

Assoc. Prof. Dr. Hasan Volkan ORAL

Doç. Dr. Hasan Volkan ORAL & Prof. Dr. Hasan SAYGIN, Acting Innovation Through Efficient Solutions for a sustainable future, Springer

Assist. Prof. Dr. Bilal ÖZTÜRK

Detection of Diabetic Retinopathy Using Deep Learning Methods, Intelligent Decision Technologies

The Web applications Cross Site Scripting Attacks and Preventions Using Machine learning Technique, International Journal of Multiphysics

Applied Machine learning In Beyond the HTTPS With Transport Layer Security (TLS), Journal of Electrical Systems

Using 5G Standards for Smart Healthcare Applications and Designing an Artificial Intelligence-based Industry 4.0 Communication System, Wiley



Assist. Prof. Dr. Büşra Selenay ÖNAL

Kansoy, S.; Önal B.S. (2024), Havacılık Sektöründe Dijital Dönüşüm: Yapay Zeka, Büyük Veri ve IOT'nin Operasyonel Verimlilik Üzerindeki Rolü,4th International Congress on Aviation Management (ICAM 2024),18-19 October 2024, Eskişehir

Assist. Prof. Dr. Candan ÇELİK

Çelik, C., Bokes, P. & Singh, A. Translation regulation by RNA stem-loops can reduce gene expression noise. *BMC Bioinformatics* 24 (Suppl 1), 493 (2023). <https://doi.org/10.1186/s12859-024-05939-8>

Assist. Prof. Dr. Dilşad AKGÜMÜŞ GÖK

AKGUMUS GOK D., OZKAN M.F., KARAMAN H.E, KHATTAB, M.S. (2025) MIG Kaynağı Yapabilen Robot Kolun Tasarımı ve Kinematik Analizi, Osmaniye Korkut Ata University Journal of the Institute of Science and Technology.

Assist. Prof. Dr. Üyesi Hakan KOMAN

Koman, H.,Renovation Of Non Engineered Masonry House Using ICF Panels, INTERNATIONAL MEDITERRANEAN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS,12-13 OCTOBER 2024, Antalya

Assist. Prof. Dr. Üyesi Melda YÜCEL

Yücel, M., 2024, Focusing on Improved Harmony Search Algorithm for Optimum Frame Systems, 5th Conference International on Advanced Engineering Technologies (ICADET2024), 25-27 Eylül 2024 Bayburt-Türkiye, Advances in Science, Technology & Innovation ((ASTI)), Springer, 164-167.

Assist. Prof. Dr. Tevfik Denizhan MÜFTÜOĞLU

Effect of Temperature on Turbulent Flow of Herschel–Bulkley Polymeric Solutions in Pipes", Journal of Pipeline Systems Engineering and Practice, American Society of Civil Engineers