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## ENGINEERING FACULTY

## e - Newsletter

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## VISIT THE STAND

Our Dean of the Faculty of Engineering, Prof. Dr. Hasan Hüseyin BALIK, Head of the Computer Engineering Department and Vice Dean Prof. Dr. Rafet AKDENİZ, and Head of the Industrial Engineering Department Asst. Prof. Dr. Yavuz Çağlar ÇERŞİT visited the booth of Defne Telekomünikasyon A.Ş., one of the external stakeholders of the Industrial Engineering Department, at the Mobilfest Fair.



## PROJECT ACCEPTANCE

Assoc. Prof. Dr. Hasan Volkan ORAL's project titled "Utilization of Macroalgae Biofilter for Wastewater Treatment" has been accepted under the EU-funded Interreg Programme (<https://interreg.eu/>). The project will be carried out by a consortium consisting of partners from Greece, Romania, Ukraine, and Türkiye.





## EDITING AND WRITING

Assoc. Prof. Dr. Hasan Volkan ORAL has undertaken the editorial and authorship responsibilities of the technical report available at <https://www.liaise-action.eu/publication/d1-4-identification-of-technical-and-non-technical-barriers-related-to-the-implementation-of-is/> under the COST ACTION LIAISE



## PARTICIPATION IN THE SUMMIT

Asst. Prof. Dr. Abdulkader Alwer participated as a keynote speaker at the First Annual Summit of Arab World Digital Transformation Leaders, held in Istanbul on April 21–23, 2025.





## LATEST ACADEMIC PUBLICATIONS

### **Prof. Dr. Zafer ASLAN**

Zafer Aslan, Ahmet Tokgözlü "Temporal Variation and Simulation of Drought Risk in the Mediterranean Region" European Meeting on Applied Science and Engineering, 14 Nisan 2025, Berlin (Online sunum)

Abdallah Dwikat, Zafer Aslan, Ahmet Tokgözlü, Şükran Sibel Menteş "Short-Term Wind Speed Prediction Based on Artificial Intelligence" SAFE AND GREEN TOMORROW CONGRESS, 16–18 Nisan 2025, University of Kyrenia (Online sunum)

### **Assoc. Prof. Dr. Hasan Volkan ORAL**

Water management and sustainable development: Circular water management conception on a river basin: The Küçük Menderes River Basin, Turkey, Case study, Chapter 18, Water Use Efficiency, Sustainability and Circular Economy, Springer

### **Assist. Prof. Dr. Elif ÇAKIR**

Cakir, E., Kahraman, S., Ozgolet, M., & Karasu, S. (2025). Effect of germinated different colored bean flours as functional ingredients on technological, bioactive and sensory quality of rice flour muffins. *Italian Journal of Food Science*, 37(2), 65-81. <https://doi.org/10.15586/ijfs.v37i2.2880>

### **Assist. Prof. Dr. Haydar DEHGAN**

Afshari, F., Mandev, E., Ceviz, M. A., Muratçobanoğlu, B., Şahin, B., Çelik, A., ... & Dehghanpour, H. (2025). Exploring solar modified glazed balconies as energy sources for mini-split heat pumps to enhance thermal performance. *Renewable Energy*, 247, 122992.

Subaşı, S., Ramazanoğlu, D., Maraşlı, M., Ozdal, V., Hatipoğlu, Y., & Dehghanpour, H. (2024). Experimental investigation of mechanical and physical properties of glass fiber reinforced concretes produced with different magnetized waters. *Journal of Sustainable Construction Materials and Technologies*, 9(3), 280-293.

Dehghanpour, H., Doğan, F., Subaşı, S., & Maraşlı, M. (2024). Experimental Study on Engineering Properties of Recycled Olivine Aggregate Filled CF Reinforced Electrically Conductive Mortars. *Sakarya University Journal of Science*, 28(3), 452-465.



### **Assist. Prof. Dr. Hakan KOMAN**

Koman, H., Nohutcu, H., Kılıç, G., Kwiecien, A., Ercan, E.: Improving the seismic behaviour of RC frames with mortarless blocks, *GRAĐEVINAR*, 77 (2025) 3, pp. 219-236, doi: <https://doi.org/10.14256/JCE.3920.2023>

### **Assist. Prof. Dr. Mahmoud MS ZIADA**

Mahmoud Ziada, Harun Tanyildizi, Ahmet Coskun, Mechanical and microstructural properties of basalt fiber reinforced underwater geopolymer mortar, *Structures*, Volume 75, 2025, 108814, ISSN 2352-0124, <https://doi.org/10.1016/j.istruc.2025.108814>.

### **Assist. Prof. Dr. Meral YILDIRIM YALÇIN**

Falsafi, S. R., Topuz, F., Aaliya, B., Demirkesen, I., Yildirim-Yalcin, M., & Rostamabadi, H. (2025). Introduction to bioactive compounds: Definition, advantages, and limitations. In *Electrospinning and Electrospaying Encapsulation of Food Bioactive Compounds* (pp. 3-24). Academic Press.

### **Assist. Prof. Dr. Melda YÜCEL**

Yücel, M., 2025, Multi-objective sustainable design of reinforced concrete cylindrical tall structures by using metaheuristic algorithms, *Frontiers of Structural and Civil Engineering*, 1-11.

Yücel, M., 2025, Comparison of Flower Pollination Algorithm and Particle Swarm Optimization for Structural Weight Minimization of RC Beams with Carbon Fiber Reinforced Polymer (CFRP), *Afyon Kocatepe Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi*, 25(2), 381-387.

Parghi, A., Gohel, J., Rastogi, A., Yucel, M., Avci-Karatas, C., Mevada, S., 2025, Seismic response prediction of asymmetric structures with SMA dampers using machine learning algorithms, *Asian Journal of Civil Engineering*, 1-23.

### **Res. Assist. Tuğce CEYHAN**

Tugce Ceyhan, Gizem Seval Tomar, Asli Can Karaca (2025). Recent advances in modification of plant-based proteins for improved encapsulation performance. *Colloids and Surfaces B: Biointerfaces*.

### **Res. Assist. Bünyamin MUTLU**

Effect of initial imperfections in short link beams on frame behavior, Bünyamin Mutlu, Cüneyt Vatansever, 4th International Graduate Research Symposium