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ENGINEERING FACULTY

e - Newsletter

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PROJECTS APPROVAL

2 TÜBİTAK projects of Dr. Cem Savaş AYDIN have been accepted. We congratulate our teacher.

1. Accepted Tübitak 2209-A Project: TKY Evolution: Total Quality Integration in Companies through Industry 4.0 Technologies
2. Accepted Tübitak 2209-B Project: Product Operation Cost Software with Real-Time Movement Analysis and Artificial Intelligence-Based Method Time Measurement in the Textile Industry



One of our lecturers from the Department of Computer Engineering, Dr. Roa'a Ali Abdullah MOHAMMEDQASEM's graduation project with her students was accepted to the Teknofest competition (from the field of Disaster response drone). We congratulate our teacher.





The Tübitak-1002 project titled "Statistical-Numerical-Experimental Investigation of the Effects of Nanoparticle Added Diesel-Biodiesel Fuel Concentrations on Engine Characteristics and Exhaust Emissions in a Single Cylinder Diesel Engine", in which Dr. Süleyman ŞİMŞEK is a researcher, has been accepted. We congratulate our teacher.

WORK MEETING

WG 2 Webinar and General Article Study meeting of the COST ACTION LIAISE project led by Assoc. Prof. Dr. Hasan Volkan ORAL was held.



SEMINAR

An event with the concept of 'HR Summit and Interview Simulation' was held on March 25, 2024, in partnership with IAU Research and Development Club and Industrial Engineering.





TECHNICAL TOUR

A technical trip was organized by the Industrial Engineering Department of our faculty to the two modern factories of the French company Plastic Omnium in Dilovası and Tuzla on Wednesday, March 6, 2024.



INTERNATIONAL CONFERENCE

The 1st INTERNATIONAL HYBRID CONFERENCE ROLE OF CLIMATE CHANGE ON WATER RESOURCES MANAGEMENT FOR A SUSTAINABLE was held between 29 February and 1 March 2024.


ISTANBUL AYDIN UNIVERSITY | **20 Years** | **100**

CALL FOR PAPERS
1st International Hybrid Conference
ROLE OF CLIMATE CHANGE ON WATER RESOURCES MANAGEMENT FOR A SUSTAINABLE FUTURE (ICCW2024)
February 29 - March 1, 2024
 e-mail: iccw2024@aydin.edu.tr
<https://www.iccw2024.aydin.edu.tr>





CYPRUS SCIENCE UNIVERSITY








LATEST ACADEMIC PUBLICATIONS

Prof. Dr. Abdulhadi BAYKAL

A.V. Trukhanov, Xiaoxu Zhao, V.G. Kostishin, D.I. Tishkevich, E.L. Trukhanova, M.A. Almessiere, A. Baykal, Y. Slimani, M.I. Sayyed, A.A. Rotkovich, S.V. Trukhanov, Zhipeng Sun, Evolution of the structural parameters and magnetic characteristics in “ferrite/polymer” nanocomposites, *Journal of Alloys and Compounds*, Volume 986, 2024, 174048, ISSN 0925-8388

Prof. Dr. Ali SINAĞ

Bilge, S., Dogan-Topal, B., Gürbüz, M.M. et al. Recent trends in core/shell nanoparticles: their enzyme-based electrochemical biosensor applications. *Microchim Acta* 191, 240 (2024). <https://doi.org/10.1007/s00604-024-06305-4>

Prof. Dr. Beşir ŞAHİN & Dr. Öğr. Üyesi Mahdi TABATABAEİ MALAZI

TM Mahdi, T Sergen, O Muammer, B Sahin (2024) A Computational Investigation of the Influence of Seafloor Conditions on the Turbulent Flow Characteristics of an Autonomous Underwater Vehicle, *Arabian Journal for Science and Engineering*,

Prof. Dr. Hasan Hüseyin BALIK

Kara, M., Merzeh, H.R.J., Aydin, M.A., Balik, H. H., “Blockchain-based Group Signature for Secure Authentication of IoT Systems in Smart Home Environments”, *Cyber-Physical Systems*, DOI - 10.1080/23335777.2024.2324798 (2024).

Alsabbagh, N., Balik H.H, “Detection of the Network Intrusion Traffic using Deep Learning” *International Conference on Computer Engineering and Software Applications (ICCESA-2024)*, Istanbul, Türkiye, 20-21 February 2024.

Assoc. Prof. Dr. Hasan Volkan ORAL

Nature-based Solutions for Circular Management of Urban Water ORAL HASAN VOLKAN, Stefanakis Alexandros, Carvalho Pedro N., Calheiros Cristina, Yayın Yeri:Springer Cham, Editör:Alexandros Stefanakis; Hasan Volkan Oral, Cristina Calheiros; Pedro N. Carvalho, Basım sayısı:1, Sayfa sayısı:445, ISBN:978-3-031-50724-3,



Assoc. Prof. Dr. Hüseyin Çağan KILINÇ

Heddami, S., Al-Areeq, A.M., Tan, M.L. et al. New formulation for predicting total dissolved gas supersaturation in dam reservoir: application of hybrid artificial intelligence models based on multiple signal decomposition. *Artif Intell Rev* 57, 85 (2024). <https://doi.org/10.1007/s10462-024-10707-4>

Kilinc, H.C., Haznedar, B., Ozkan, F. et al. An evolutionary hybrid method based on particle swarm optimization algorithm and extreme gradient boosting for short-term streamflow forecasting. *Acta Geophys.* (2024). <https://doi.org/10.1007/s11600-024-01307-5>

Assist. Prof. Dr. Cem Savaş AYDIN

Mohamed Al DAWOUDI, Cem Savaş Aydın OPERATION AND MAINTENANCE OPTIMIZATION OF AN ON-GRID SOLAR FARM IN JORDAN, 5TH INTERNATIONAL AZERBAIJAN CONGRESS ON LIFE, ENGINEERING, MATHEMATICAL AND APPLIED SCIENCES

Assist. Prof. Dr. Dilşad AKGÜMÜŞ GÖK

AKGÜMÜŞ GÖK, D., Destructive and Non-Destructive Testing of 304 Austenitic Stainless Steel Produced by Investment Casting Method, Nondestructive Testing and Evaluation, 2024

AKGÜMÜŞ GÖK, D., Determination of optimum printing direction of the polycarbonate parts produced by additive manufacturing, , *Materials Research Express*, 2024

Assist. Prof. Dr. Hakan KOMAN

KOMAN, H., (2024). IMPROVING THE BEHAVIOR OF RC FRAMES BY USING LIGHTWEIGHT CONCRETE PANELS AND METALLIC ELEMENTS. *Kahramanmaraş Sütçü İmam Üniversitesi Mühendislik Bilimleri Dergisi*, 27(1), 105-120

Assist. Prof. Dr. Süleyman ŞİMŞEK

Ağseren, S., Şimşek, S., Touch sensors used in Industry 4.0 to machines in the manufacturing industry on occupational health and safety, *Sensor Review*

Metaverse'in Psikososyal Riskler Açısından Değerlendirilmesi, *Academy Global Conferences& Journal*