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**ISTANBUL AYDIN
UNIVERSITY
ENGINEERING FACULTY**

e - Newsletter

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Editors

Assist. Prof. Dr. Semih YÖN

Res. Assist. Abdullah NİĞDELİOĞLU

Gözde PÖGE



6TH INTERNATIONAL CONFERENCE ON “INTELLIGENT INFORMATION TECHNOLOGIES FOR THE INDUSTRY”

The 6th International scientific conference on "Intelligent Information Technologies for Industry" was held on 1-6 November 2022. Researchers from 14 different countries participated in the conference, which was held as a hybrid (face-to-face and online participation) in Halit Aydın Campus-T block Turquoise Hall and Purple Hall.



The conference started with Prof. Dr. Yadigar Izmirli (Rector of Istanbul Aydın University) and Prof. Dr. Imran Akperov's (Rector of South Russian University) speeches and ended with the closing session on artificial intelligence applications.





SMART SOFTWARE SOLUTIONS IN DIGITAL SHIPPING

On 23.11.2022 for the students and faculty members of our faculty, conference on “Intelligent Software Solutions in Digital Shipping” was organized with the participation of Prof. Dr. Ersin ARSLAN and Buğra YILDIRIM, Hande ÖRKÜŞ and Uğur KONAR of HAVELSAN engineers. A pleasant conference was held with HAVELSAN engineers, which included a long question and answer tour.

**İSTANBUL AYDIN
ÜNİVERSİTESİ**

HAVELSAN

Dijital Denizcilikte Akıllı Yazılım Çözümleri

MODERATÖR

KONUŞMACILAR

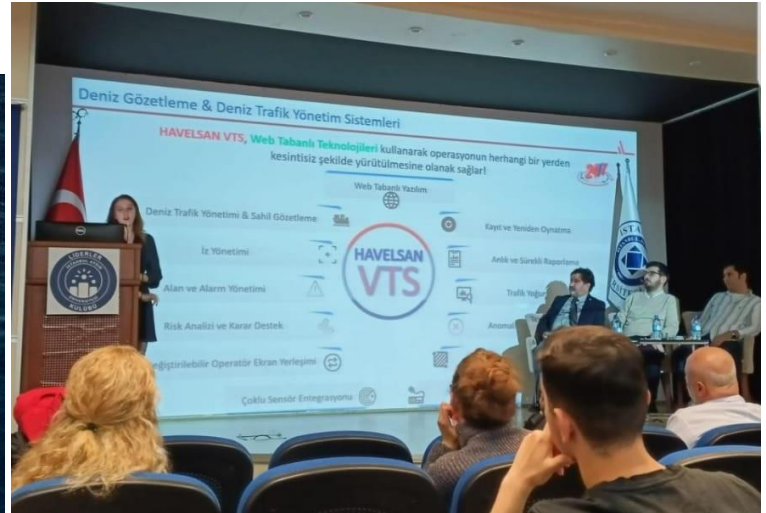
PROF. DR. Ersin ARSLAN
IAU Savunma Sanayi Teknolojileri Uygulama ve Araştırma Merkez Müdürü

Buğra YILDIRIM
HAVELSAN Ürün Geliştirme Takım Lideri

Hande ÖRKÜŞ
HAVELSAN Proje Teknik Yöneticisi ve Sistem Mühendisi

Uğur KONAR
HAVELSAN Yazılım Mühendisi

23 Kasım 2022 **14:00** **D Blok Mavi Konferans Salonu**





AVIATION AND ENVIRONMENT WEBINAR

A webinar on "Aviation and Environment" was organized with the participation of Asst. Prof. Dr. Semih YÖN and Assoc. Prof. Dr. Anıl PADHRA on 11.11.2022 for the students and faculty members of the Faculty of Engineering and Aviation Management and Pilotage Department of Istanbul Aydın University. Assoc. Prof. Dr. Anıl PADHRA is one of the faculty members of West London University.

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WEBINAR FOR FACULTY OF ENGINEERING AND FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES "AVIATION AND ENVIRONMENT"



ONLINE GUEST LECTURER
DR. ANIL PADHRA

ASSOCIATE PROFESSOR IN SUSTAINABLE AVIATION
LONDON GELLER COLLEGE OF HOSPITALITY AND TOURISM
UNIVERSITY OF WEST LONDON, UK



MODERATOR
ASST. PROF. DR. SEMİH YÖN

VICE DEAN, IAU ENGINEERING FACULTY,
DIRECTOR, IAU INDUSTRY 4.0 RESEARCH CENTER,
ISTANBUL AYDIN UNIVERSITY

11.11.2022

11.00 a.m (Istanbul Time)



LIVE WEBCAST

Meeting ID : 89922136981
Password : 4441428



Prof. Dr. Hasan Alpay HEPERKAN's Presentation on the Youtube channel of the Ministry of Environment, Urbanization and Climate

At the COP 27 event held in Egypt in 2022 and included in the event calendar of Turkey's Egyptian Pavilion, Prof. Dr. Hasan Alpay HEPERKAN made a presentation on Solar Energy on 14.11.2022. It was also shared live on the Youtube channel of the Ministry of Environment, Urbanization and Climate between 21:00-21:45 (UTC+3). The video link is available at the link below:

https://www.youtube.com/channel/UCaSsoA-q-4QkJD33_Ew3U9w/streams



Join our session at COP27!

**Combating Climate Change,
Efficient Use of Energy, Energy
Planning and the Expansion of
Renewable Energy**

14 November, 20-20:45 | Türkiye Pavilion

Speakers:

- Dođancan Beşikci, Renewable Energy Association (EUROSOLAR Türkiye)
- Prof. Dr. Hasan Heperkan, Istanbul Aydın University, Renewable Energy Association (EUROSOLAR Türkiye)
- Egemen Sulukan, Energy System Analysis and Modelling Expert
- Moderator: Prof. Dr. Tanay Sıdkı Uyar, Renewable Energy Association (EUROSOLAR Türkiye)



THE OUTLOOK OF THE COMMERCIAL AIR TRANSPORT INDUSTRY AND NEXT GENERATION OF AVIATION PROFESSIONALS

WEBINAR

A webinar on “The Outlook of the Commercial Air Transport Industry and Next Generation of Aviation Professionals” with the participation of Prof. Dr. Kürşad Melih GÜLEREN, Asst. Prof. Dr. Semih YÖN and Cengiz TÜRKOĞLU, on 26.10.2022 was held for our faculty students and faculty members. In the webinar, explanations were made on international air transportation and new generation professionals.

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WEBINAR FOR
FACULTY OF ENGINEERING AND FACULTY OF
ECONOMICS AND ADMINISTRATIVE SCIENCES
“THE OUTLOOK OF THE COMMERCIAL AIR TRANSPORT
INDUSTRY AND NEXT GENERATION OF
AVIATION PROFESSIONALS”



ONLINE GUEST SPEAKER
CENGİZ TURKOĞLU
SENIOR LECTURER IN SAFETY ENGINEERING
CENTRE FOR SAFETY & ACCIDENT INVESTIGATION
CRANFIELD UNIVERSITY, UK



MODERATOR
ASST. PROF. DR.
SEMİH YÖN
VICE DEAN, IAU ENGINEERING FACULTY,
DIRECTOR, IAU INDUSTRY 4.0 RESEARCH CENTER,
ISTANBUL AYDIN UNIVERSITY



SPEAKER
PROF. DR.
KÜRŞAD MELİH GÜLEREN
DEAN, ENGINEERING FACULTY



LATEST ACADEMIC PUBLICATIONS

1) Hasan Volkan ORAL

- In the book titled The Palgrave Encyclopedia of Sustainable Resources and Ecosystem Resilience, the book chapter study "The Case Study Examples of Sustainable Resources and Ecosystem Resilience in Turkey" was accepted with Prof. Dr Hasan Saygın (co-author) and will be published in 2023.
- COST Action (CA) 20138 took place under the name of IAU as 'WG1' rapporteur/facilitator at the Workshop held on 05 September 2022 for the "Network on water-energy-food nexus for a low-carbon economy in Europe and beyond - NEXUSNET" project (<https://www.cost.eu/actions/CA20138/>).
- In the action FULLRECO4US -COST Action 20133: Cross Border Transfer and Development of Sustainable Resource Recovery Strategies Towards Zero Waste, WG 4 will organize a webinar on "Sustainable Resource Recovery" in January 2023 as co-leader. (<https://fullreco4us.eu/working-groups/>)

2) Abdulkader ALWER

- Study and Evaluation of Quality of Services in Mobile Internet Protocol v6 Using IEEE802.11e
Published in Wireless Communication and Mobile Computing, indexed as Q2 Scopus journal.

<https://www.hindawi.com/journals/wcmc/2022/3092512/>

You can find more details about this journal at the link below:

<https://www.resurchify.com/impact/details/17543>

3) Nima MIRZAI

- A Multicriteria Decision Framework for Solar Power Plant Location Selection Problem with Pythagorean Fuzzy Data: A Case Study on Green Energy in Turkey
Journal: Sustainability
DOI: <https://doi.org/10.3390/su142214921>



4) Arif ULU

- Ulu, A., Arikoglu, A., Metin, M., Demir, O., A novel viscoelastic modelling of railway track elements and experimental validation, *Construction and Building Materials*, 356, 129235, <https://doi.org/10.1016/j.conbuildmat.2022.129235>
- Ulu, A., Tutar, A., Kurklu, A., Cakir, F., Effect of Excessive Fiber Reinforcement on Mechanical Properties of Chopped Glass Fiber Reinforced Polymer Concretes, *Construction and Building Materials*, 359, 129486, <https://doi.org/10.1016/j.conbuildmat.2022.129486>

5) Dilşad AKGÜMÜŞ GÖK

One project was accepted within the scope of “2209-A University Students Research Projects Support Program” and one project was accepted within the scope of “2209-B Industry Oriented Undergraduate Research Projects Support Program”.

2209-A Informations

Advisor: Asst. Prof. Dr. Dilşad AKGÜMÜŞ GÖK

Student: Berk Dinçer AKAY

Name of project: Creation of Composite 3D Printer Filament Obtained from Carbon and Glass Fiber with Improved Mechanical Properties for Use in the Defense Industry

2209-B Informations

Advisor: Asst. Prof. Dr. Dilşad AKGÜMÜŞ GÖK

Student: Ramazan YÜKSEL

Name of project: Development of 3D Printer and Prototype Production of Custom-built Hybrid Composite Filaments in Mass Production

6) İlham HUSEYINOV

I. HUSEYINOV and A. Bayrakdar, “Novel NSGA-II and SPEA2 Algorithms for Bi-Objective Inventory Optimization,” *STUDIES IN INFORMATICS AND CONTROL*, vol. 31, no. 3, pp. 12–42, Sep. 2022.

7) Müberra ESER AYDEMİR

M. ESER AYDEMİR and C. AYDEMİR, “A Novel Residual Displacement Based Damage Index for Structural System,” *Ingenieria Sismica*, no. 3, pp. 1–25, Oct. 2022.

8) Mahdi TABATABAEIMALAZI

M. TABATABAEIMALAZI, A. S. DALKILIÇ, and S. Wongwises, “Numerical Modeling of Interactions between Solitary Waves and Floating Breakwaters,” *Journal of Applied Fluid Mechanics*, vol. 15, pp. 0–0, Nov. 2022