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INTERNATIONAL INNOVATION, SCIENCE, AND TECHNOLOGY CONFERENCE InnoSciTech'26

15-18 MAY 2026
AKYAKA-MUĞLA

Program Booklet



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16 May 2026 Saturday

Programme

09:00: Registration

Opening Ceremony / 10.00-10.30

- Moment of Silence, National Anthem and Opening Speech
- Invited Speaker, Prof. Dr. Erhan Akdoğan

Session 1 / 11.00-12.30

Chair Asst. Prof. Dr. Yılmaz GÜVEN

- Digital Filter Design Using Artificial Neural Networks
Asst. Prof. Dr. Yılmaz GÜVEN
- Comparative Analysis of Grain Measurement Systems Used in Industrial Grain Plants and an Application of a Discrete Weighing-Based Yield Scale
Asst. Prof. Dr. Aydın GÜLLÜ
Aylin SATILMIŞ
- Structural Analysis and Experimental Validation of an Excavator Chassis
Ali BEKTAŞ
- Comparison of Reducer Types for Robotic Applications and Cycloid Reducer Design
Asst. Prof. Dr. Eray YILMAZLAR
- CFD Analysis of the Hydrogen Tank Filling
Ekin Can KAYAR / Dr. Mustafa YILDIZ
- Patent Landscape Analysis of LPBF and WAAM for Functionally Graded Metal Additive Manufacturing
Selin DEKSİZLER / Asst. Prof. Dr. İdris Tuğrul GÜLENC

Lunch Break 12.30 - 13.30

Session 2 / 13.30-15.15

Chair Assoc. Prof. Dr. Uğur DEMİR

- Micro Stewart Platform for Vertebra Model and Motion Simulation in Posture Disorders
Assoc. Prof. Dr. Uğur DEMİR
- Performance, Exergy and Economic Impacts of Green Hydrogen Blending in NGCC Power Plants in Türkiye
Merve BOZDAĞ / Asst. Prof. Dr. Ahmet UÇAR
- Deep Learning-Based Automatic Modulation Classification Using GRU Networks
Dr. Osman TOKLUOĞLU / Emin KERESTECİ
- Altering Microstructure of High Boron Steels by Conducting Different Heat Treatment Procedures
Dr. Ömer Faruk MURATHAN / Asst. Prof. Dr. Mehmet Remzi ABUL
- Comparative Performance Analysis of NIST PQC Standards: From STM32 Software Limitations to FPGA-SoC Acceleration
Dr. Osman TOKLUOĞLU / Mustafa Akif YILDIRIM
- Decision Tree-Based Classification of Textile Production Productivity and Its Implementation on ESP32
Asst. Prof. Dr. Ercan COŞGUN / Nahide ÖNER COŞGUN
- CNN and PINN based CFD Approach for Sneakers
Büşra Erkömek ATEŞ / Elif Nihan YILDIZ / Mahmut ULUSOY /
Assoc. Prof. Dr. Uğur DEMİR



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17 May 2026 Sunday

Session 1 / 10.00-12.00

Chair Assoc. Prof. Dr. Furkan SOYSAL

- A Genetic Algorithm-Based Framework for Inertia Estimation in Power Systems with Grid-Scale BESS
Mohamed FARAH ABDILAHİ / Asst. Prof. Dr. Yunus YALMAN
- Performance Evaluation of High-Speed Air Cycle Machine Architectures for Aerospace Cooling Applications
Alperen ÖZCAN / Prof. Dr. Selahattin ÇELİK
- Numerical Performance Analysis of Flow Field Designs for Large-Area PEM Fuel Cells in Heavy-Duty Vehicle Applications
Mohammad ALOBEİD / Merve MENTEŞ / Furkan ÇETİNER / Prof. Dr. Selahattin ÇELİK
- Smart De-Icing of Wind Turbine Blades: A Review of Machine Learning and Power Electronics-Based Approaches
Ümran Özge ŞEBİK / Assoc. Prof. Dr. Sıtkı KOCAOĞLU
- A Comparative Analysis on Energy Consumption, Economic Growth and Carbon Dioxide Emissions
Şeymanur BAŞLIK / Ömer Önder ERAT / Assoc. Prof. Dr. Furkan SOYSAL / Asst. Prof. Dr. Ahmet UÇAR / Prof. Dr. Bülent YEŞİLATA
- Experimental Investigation of Density and Apparent Viscosity Evolution Across Multi-Compartment Sedimentation Tanks Under Varying Total Suspended Solid Contents
Kaan Berk ÇELİK / Mustafa ÇELİK / Ruhican DÜRLÜ / Ömer Önder ERAT / Assoc. Prof. Dr. Furkan SOYSAL / Assoc. Prof. Dr. Sıtkı KOCAOĞLU / Prof. Dr. Bülent YEŞİLATA
- An Overview of Interleaved Buck Converters and Modern Control Approaches
Kazım YEL / Asst. Prof. Dr. Mehmet Zahid EREL
- Geometric Design and Numerical Analysis of Jet Stretcher in Supersonic Free-Jet Tests
Batuhan YURTDAN / Prof. Dr. Selahattin ÇELİK / Prof. Dr. Kamil ARSLAN

Lunch Break 12.00 - 13.00

Session 2 / 13.00-15.00

Chair Prof. Dr. Fatih Vehbi ÇELEBİ

- Vibroacoustic Optimization of Porous Kelvin Cell Metamaterials for Washing Machine Mounts: A Computational Approach
Dr. Mahmut Cihat YILMAZ
- Design Considerations and Geotechnical Challenges for Subsea Shallow Foundations
Ali ÇOBAN / Asst. Prof. Dr. Zeynep Huri ÖZKUL BİRGÖREN
- Cooperative Trajectory Planning for Large-Scale Additive Manufacturing: A Multi-Agent Reinforcement Learning Approach
Ahmed MERZE / Prof. Dr. Fatih Vehbi ÇELEBİ
- Design and Experimental Investigation of a Membrane-Free Flow-through Electrolyzer for Hydrogen Production
Sefa ŞAHİN / Prof. Dr. Hasan ÖZCAN / Ahmet Talha TOPCU / Mustafa KAYMAK
- An Improved Sine-Cosine Algorithm for Solving the Reactor Network Design Problem: ANELS-SCA
Asst. Prof. Dr. Harun GEZİCİ
- Efficiency Comparison of Bifacial Photovoltaic Panels Under Various Ground Conditions
İnci ATALAY / Assoc. Prof. Dr. Sıtkı KOCAOĞLU
- The Climate-Fire Nexus: Assessing The Impact of Global Climate Change on Forest Fires in Türkiye
Asst. Prof. Dr. Özcan ŞİMŞEK / Ece KAZANCI / Özge ÖZER / İrem KIVRAK
- Suppression of Delamination in Tape-Cast Planar YSZ Electrolytes via Multi-Step Lamination and Thermal Conditioning for rSOC Applications
Ahmed Emin KILIÇ / Prof. Dr. Selahattin ÇELİK / Assoc. Prof. Dr. Meryem Sena AKKUŞ / Prof. Dr. Cihangir DURAN / Prof. Dr. Erol ARCAKLIOĞLU

Closing Ceremony / 15.00-15.30

- Closing Speech