ÇALIŞTAY DAVETİ

ODTÜ Elektrik-Elektronik Mühendisliği Bölümü lisansüstü öğrencilerine yönelik olarak bu yıl sekizincisi düzenlenen Lisansüstü Araştırma Çalıştayı GRADSTAR 2025, ekte sunulan programla gerçekleştirilecektir. Etkinliğin kapanışında başarılı araştırmacıların ödüllendirileceği bir ödül töreni yapılacaktır.

Çalıştayı ve ödül törenini onurlandırmanızı diler, saygılar sunarız.

EEMB

Tarih: *14 Mart 2025, Cuma*
Saat: *9.30 – 17:30*
Yer: *ODTÜ Elektrik ve Elektronik Müh. Böl.*
Sevim Tan Amfisi / Ayaslı Araştırma Merkezi

GRADSTAR 2025 Programı – 14 Mart 2025, Cuma

9.30 – 10.00 Açılış Töreni (Sevim Tan Amfisi)

10.00 – 13.00 Poster Oturumu (Ayaslı Research Center)

13.00 – 15.10 Sözlü Oturum I (Sevim Tan Amfisi)

13.30-13.50 Özgür Gülsuna "Design and Analysis of a GaN-Based Megahertz Integrated Motor Drive for a PCB Motor"

Authors: Ozgur Gulsuna, Furkan Tokgoz, Furkan Karakaya, Ozan Keysan

13.50-14.10 Ogün Altun "Narrowband and Wideband Dual-Mode Wireless Power Transfer System With a Single Transmitter"

Authors: Enes Ayaz, Ogün Altun, Özgur Gülsuna, Ozan Keysan

14.10-14.30 Kemal Parlaktuna "WLAV state estimation based topology error detection and identification in distribution networks with limited number of measurements"

Authors: Kemal Parlaktuna, Erk Dursun, Murat Göl

14.30-14.50 Arash Mohammadi Vaniar "A battery degradation-aware energy management system for agricultural microgrids"

Authors: Vahid Safavi, Arash Mohammadi Vaniar, Najmeh Bazmohammadi, Juan C. Vasquez, Ozan Keysan, Josep M. Guerrero

14.50-15.10 Atakan Durmaz "Feedback motion planning via sequential composition of random elliptical funnels"

Authors: Atakan Durmaz, Oğuz Özdemir, Mustafa Mert Ankaralı

15.10 – 15.40 Kahve Arası

15.40 – 17.00 Sözlü Oturum II (Sevim Tan Amfisi)

15.40-16.00 Hakan Özen "Interference and Beam Squint Aware TTD-Aided Beamforming for Dual Wideband Massive MIMO"

Authors: Hakan Özen, Gökhan Muzaffer Güvensen

16.00-16.20 Hakan Özen "Beam-Squint-Aware Channel Estimation for Dual-Wideband UPA-Type RIS-Aided Massive MIMO"

Authors: Hakan Özen, Onur Yılmaz, Gökhan Muzaffer Güvensen

16.20-16.40 Doğukan Özbayrak "Eliminating Media Noise While Preserving Storage Capacity: Reconfigurable Constrained Codes for Two-Dimensional Magnetic Recording"

Authors: Iven Guzel, Doğukan Özbayrak, Robert Calderbank, Ahmed Hareedy

16.40-17.00 Özgür Eriş "Design, simulation, and measurement of near-zero-index shells for electromagnetic beam generation"

Authors: Özgür Eriş, Özgür Ergül

17.00 – 17.30 Kapanış ve Ödül Töreni (Sevim Tan Amfisi)

Posterler

P1 - Anıl ARSLAN “Comparative Analysis of Multi-static and Monostatic Radar Networks”

P2 - Enes Kaya “Reinforcement Learning Based Rate Splitting for Minimizing AoI in Finite Blocklength Systems”

P3 - Baran Kırdar “A Multi-target Parameter Estimation Method for Mimo Isac System with OFDM Waveform”

P4 - Deniz Cenk Temel “MEMS-Based Multimodal System With Temperature, Pressure, and Oxygen Concentration Sensors for Intracranial Measurements”

P5- Muzaffer Temelli “Sensor Processing and Controller Design for Trajectory Tracking of Autonomous Vehicles”

P6 - Atakan Durmaz “Simulation and Control of an Unmanned Lunar Rover at the Moon’s South Pole: Leveraging Challenging Illumination Conditions for Enhanced Exploration”

P7 - Osman Kaan Karagoz “Predictive uncertainty in state-estimation drives active sensing”

P8 - Mustafa Akbaba “An Optimization-Driven Foot Placement Controller for Quadruped Landing”

P9 - Arash Mohammadi Vaniar “Two-Stage Distribution Network Reconfiguration Considering Shunt Compensation”

P10 - Fatih Erden “Data Driven Condition Monitoring on Water Conduit Systems of Hydro Power Plants”

P11 - Tuğrul Nizamioğlu “Two-Layer Model Predictive Control of Microgrids: Cost Optimization and Resilience Through Adaptive Setpoint Coordination”

P12 - Mohammad Hossein Mokhtare “Design and Control of an Agricultural Microgrid for Grid-Connected and Off-Grid Applications”

P13 - Işık Emir Altunkol “Design and Validation of a Low-Speed PCB Motor for Agricultural Steering Applications”

P14 - Yusuf Basri Yılmaz “Design and Optimization of Dual-speed Synchronous Reluctance Motor”

P15 - İsmail Macit “Testing of a Compact DC/DC Converter for Electric Vehicles with GaN High Electron Mobility Transistors (HEMTs)”

P16 - Mehmet Emre Eralp “Analysis and Design of 3D Printed Dielectric Scattering Surface”

P17 - Ramazan Cem Çıtak “Simulation of Radar Echo Signal with Different Statistical Models for a Radar Altimeter”

P18 - Eda Özkaynar “Prediction of Left Ventricular Ejection Fraction From 2D Echocardiography”

P19 - Alp GÜRSOY “Deep Learning-Based Reconstruction of Covariance Matrices for Direction of Arrival Estimation in Coherent and Non-Coherent Signal Contexts”

P20 - Canberk Almus “A Data-Driven MARS Approach for PVC Localization Using Clinical Data”

P21 - Yunus Emre Tüysüz “Classification of ECG Beats Using a Hybrid Transformer-CNN Model”

P22 - Melis Gökşen “Reconfigurable Cactus Antenna for ISM Bands”