

DETAILED PROGRAM

December 19, 2024, Thursday

Opening Ceremony

Room: Ömer Korzay Conference Hall

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December 19, Thursday, 10:00-10:30

Invited Speaker 1 (10:30-11:30)

Room: Ömer Korzay Conference Hall

AI-Based Ultra-Reliable Wireless Networked Control Systems in 6G

Prof. Sinem Coleri (Koc University, Türkiye)

Invited Speaker 2 (11:30-12:30)

Room: Ömer Korzay Conference Hall

Artificial Intelligence-driven design: reasoning, learning, and control

Prof. Tufan Kumbasar (Istanbul Technical University, Türkiye)

LUNCH BREAK (12:30-13:30)

SESSION 1 (13:30-15:00)

Room: Ömer Korzay Conference Hall

Chair: Mehmet Akif Yazıcı

Who is Smoking? A Frame Analysis-based Cigarette Detection Framework for Offline Videos

Onur Can Koyun, Reyhan Kevser Keser and Behçet Uğur Töreyn

Enhancing Credit Risk Assessment with Federated Learning through A Comparative Study

Mustafa Aktaş, Ruşen Akkuş Halepmollası, and Behçet Uğur Töreyn

Deep Reinforcement Learning Based Uplink Resource Allocation in Open RAN Systems

Ali Yıldırım, Hasan Anıl Yıldız, İbrahim Hökelek, Hakan Ali Çırpan

An Analytical Model for Time-dependent Battery Level Distribution for UAVs

Ayda Baheri Eslami, Mehmet Akif Yazıcı

COFFEE BREAK (15:00-15:30)

SESSION 2 (15:30-17:00)

Room: Ömer Korzay Conference Hall

Chair: Yusuf Hüseyin Şahin

Effects of Communication Channels on Explainable Food Recommendation Systems

Berkecan Koçyiğit, Berk Buzcu, Davide Calvaresi, Zehra Kesemen, Joris Hulstijn, Igor Tchappi, Reyhan Aydoğan

Impact of Face Alignment on Face Image Quality

Eren Onaran, Erdi Sarıtaş, Hazım Kemal Ekenel

Establishing Visualization-to-Hardware Communication Through Middleware for Digital Twin with ROS-Compatible Microcontrollers Latency Tests

Diana Belolipetskaja, Anton Rassölkin, Hadi Ashraf Raja, Pavels Maksimkins, and Andrejs Stupans

Semantic Search on Turkish E-Commerce Data: Benchmarking Language Models

Selami Uğur Civelek, Duygu Çakır

December 20, 2024, Friday

December 20, Friday, 10:00-10:05

Invited Speaker 3

Room: Ömer Korzay Conference Hall

How AI impacts the research process

Prof. Kostas Karpouzis (Panteion University of Social and Political Sciences, Greece)

December 20, Friday, 10:00-11:00

SESSION 3

Room: Ömer Korzay Conference Hall

Chair: Volkan Müjdat Tiryaki

High-Frequency CPW-Fed Micro-Sensor Design and Optimization for Advanced Robotic Applications

Djamel Sayad, Chemseddine Zebiri, Issa Elfergani, Kamil Karaçuha, Mouhamed Lamine Bouknia, Rami Zegadi, Jonathan Rodriguez

Trajectory Planning for eVTOL Aircraft with High-Fidelity HV Battery Modeling and SOC Estimation`

Mostafa Abdelkhalek, İsmail Bayezit

Morphing Detected Human Intention via Human-Computer Interactions

Cevdet Şencan, Aydan Müşerref Erkmen, Ertuğrul Aygın

Computer-Aided Alzheimer's Disease Diagnosis from Magnetic Resonance Images using Cycle Generative Adversarial Networks and Deep Transfer Learning

Volkan Müjdat Tiryaki, Seda Coşkun Eliküçük

LUNCH BREAK (12:30-13:45)

MARINE ROBOTICS WORKSHOP (13:45-15:00)

Room: Ömer Kozay Conference Hall

Chair: Ömer Kemal Kınacı

Maneuvering model for ship dynamic positioning

Ömer Kemal Kınacı, Burak Güngüder

Sensitivity Analysis of Hydrodynamic Coefficients in Ship Manoeuvring: A Case Study Using VLCC Turning Simulations

Suat Adnar, Ömer Kemal Kınacı, Ali Doğrul

Fundamental Study on Forecasting Surface Ship Maneuvering Characteristics for Autonomous Docking Operations

Hasan Timurlek, Mahmutcan Esenkalan, Taner Cosgun

Prediction of Course-Keeping Control Coefficients of DARPA Suboff

Duygu Ünlü, Cihad Delen

COFFEE BREAK (15:00-15:30)

SESSION 4 (15:30-16:30)

Room: Ömer Kozay Conference Hall

Chair: Ömer Melih Gül

Pituitary Gland Segmentation from Pre-processed Brain MRI Slice with VGG-UNet

Seifedine Kadry, Sahar Yassine, Hong Lin, Venkatesan Rajinikanth, Ömer Melih Gül

Long Short Term Memory algorithm in Intrusion Detection: A Deep Learning Approach to Time Series Data

Azizjon Meliboev, Elbek Asqarov, Jasurbek Sulaymonov, Axrorjon Yoldashev

Application of an asymmetric ciphering computational process based on the complexity of multiplications with parameters and finite group logarithm problem to the electronic digital authentication protocol

Akhmadaliev Sharifovich Shakhobiddin, Abdumannon Kodiraliyevich Jumakulov, Muzaffar Mansurovich Botirov

Closing Ceremony

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December 20, Friday, 16:30-16:45