

GENERAL PROGRAM

December 15, 2023 (Friday)

10.00-10.30 Opening Talk

10.30-11.30 Keynote Talk 1 (Asst. Prof. Dr. Kostas Karpouzis, Panteion University of Social and Political Sciences, Greece)

11.30-12.30 Industry Talk (Mr. Emre Bekler, FANUC, Türkiye)

12.30-14.00 LUNCH BREAK

14.00-15.00 Keynote Talk 2 (Prof. Dr. Mouloud Adel, Aix-Marseille University, France)

15.00-16.00 Keynote Talk 3 (Prof. Dr. Nizamettin Aydın, Istanbul Technical University, Türkiye)

16.00-16.30 COFFEE BREAK

16.30-17.30 Technical Session 1 (3 papers)

December 16, 2023 (Saturday)

10.00-11.00 Keynote Talk 4 (Prof. Dr. Seifedine Nimel Kadry, Noroff College, Norway)

11.00-12.00 Technical Session 2 (3 papers)

12.00-12.30 Special Session (2 papers)

12.30-14.00 LUNCH BREAK

14.00-15.00 Technical Session 3 (3 papers)

15.00-15.30 COFFEE BREAK

15.30-16.50 Technical Session 4 (4 papers)

16.50-17.00 Closing Talk

DETAILED PROGRAM

December 15, 2023, Friday

December 15, Friday, 10:00-10:30

Invited Speaker 1

Room: Fazıl Say Conference Hall

What would Aristotle say? The Importance of Interpretability and Explainability in High Risk/High Reward Contexts

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

December 15, Friday, 10:30-11:30

Industry Speaker

Room: Fazıl Say Conference Hall

Industrial Robotics Technologies

Mr. Emre Bekler (FANUC, Türkiye)

December 15, Friday, 11:30-12:30

LUNCH BREAK

Invited Speaker 2

Room: Fazıl Say Conference Hall

Computer-Aided Diagnosis systems on medical images using image processing and machine learning techniques

Prof. Dr. Mouloud Adel (Aix-Marseille University, France& Galatasaray University, Türkiye)

December 15, Friday, 14:00-15:00

Invited Speaker 3

Room: Fazıl Say Conference Hall

AI and Computer Vision Approach for Assessment of Male Dependent Infertility techniques

Prof. Dr. Nizamettin Aydın (Istanbul Technical University, Türkiye)

December 15, Friday, 15:00-16:00

COFFEE BREAK

SESSION 1

Room: Fazıl Say Conference Hall

Chair: Ali Hamidoğlu

Comparatively Studying Modern Optimizers Capability for Fitting Vision Transformers

Abdullah Abdullah and Tarkan Aydın

A Novel Nash-based Matching Approach for Multi-Robot Task Allocation in Distributed Robotic Networks

Ali Hamidoğlu, Ömer Melih Gül, and Seifedine Nimel Kadry

Analytical approach for mitigating phishing attempts

Artur Koci, Sara Alshehhi, Alanod Alhosani, Hessa Aldhaheri, Sara Alhammadi, and Ameera Alzaabi

December 15, Friday, 16:30-17:30

December 16, 2023, Saturday

December 16, Saturday, 10:00-10:10

Invited Speaker 4 (ONLINE)

Room: Fazıl Say Conference Hall

A Comprehensive Survey of Leukemia Segmentation and Classification

Prof. Seifedine Nimel Kadry (Noroff College, Norway)

December 16, Saturday, 10:10-11:00

SESSION 2

Room: Fazıl Say Conference Hall

Chair: Suzan Üreten

Multiple Node Localization in Cognitive Radio Based Wireless Sensor Networks Using Grid Search

Suzan Üreten

Style Transfer to Enhance Data Augmentation for Facial Action Unit Detection

Duygu Çakır, Nafiz Arıca

Detection of Misinformation Related to Pandemic Diseases using Machine Learning

Javaria Naeem, Ömer Melih Gül, İsmail Burak Parlak, Kostas, Karpouzis, Seifedine Nimel Kadry, Yücel Batu Salman

December 16, Saturday, 11:00-12:00

SPECIAL SESSION

Room: Fazıl Say Conference Hall

Chair: Sahar Yassine

Test the capability of Arduino TinyML for Machine Learning

Valentin Caravella, Sahar Yassine, Seifedine Nimel Kadry

Comparison of different methods for Estimation of Arterial Blood Pressure using PPG Signals

Teodora Mladenovska, Ana Madevska Bogdanova, Magdalena Kostoska, Bojana Koteska, Nevena Ackovska, Trojachanec Dineva

December 16, Saturday, 12:00-12:30

LUNCH BREAK

SESSION 3

Room: Fazıl Say Conference Hall

Chair: Rozhin Fani

Learning Soft Robotic Arm Control: A Data-Driven Approach with Forward Dynamics Transformer and Reinforcement Learning

Abdelrahman Alkhodary and Mehmet Berke Gür

KineFormer: Solving The Inverse Modeling Problem of Soft Robots using Transformers

Abdelrahman Alkhodary and Mehmet Berke Gür

Comparing LSTM and Transformer for Video Depth Estimation

Rozhin Fani and Mehmet Berke Gür

December 16, Saturday, 14:00-15:00

COFFEE BREAK

SESSION 4 (ONLINE)

Room: Fazıl Say Conference Hall

Chair: Javaria Naeem

Systematic Review of Network Slicing Resource Management in 5G

Islam Tharwat, Heba Aslan, and Ahmed El Baz

Best Image Processing for Higher Face Detection Rate using Haar Cascades

Suneet Gupta, Uday Kumar Singh, Manoj Kumar Singh, Asha Joseph, and Lopa Mandal, Praveen Gupta, and Tanvir Habid Sardar

Prediction of Road Traffic Accident Severity using Machine Learning Techniques in the case of Addis Ababa

Betelhem Zewdu, Yigezu Agonafir, Semachew Molla Kassa

Explainable AI for discovering disease biomarkers: a survey

Slave Temkov

December 16, Saturday, 15:30-16:50