



INTERNATIONAL CONFERENCE ON AI AND BIG DATA IN ENGINEERING APPLICATIONS

June 14-15, 2021 online

MONDAY June 14, 2021

Zoom Meeting ID: 960 9054 5951

Passcode: 4441428



Conference Chair: Prof. Dr. Can BALKAYA, Istanbul Aydin University

10:00-10:15

Invited Keynote Speaker: Prof. Dr. David ARDITI, Illinois Institute of Technology

10:15-10:45

TUESDAY June 15, 2021

Zoom Meeting ID: 921 5596 4838

Passcode: 4441428

PRESENTATIONS ON JUNE 14, 2021, MONDAY

- AI and Big Data Applications in Disaster Management**
Can Balkaya (IAU)
Speaker: Can Balkaya, Istanbul Aydin University 11:00-11:20
- Comparison of Machine Learning Techniques for Text Classification**
Bedirhan Uygun (METU), Ali Bedii Candaş (METU), Onur Behzat Tokdemir (METU)
Speaker: Bedirhan Uygun, Middle East Technical University 11:20-11:40
- AI-Based Electricity Demand Prediction: A Case Study for an Industrial Area**
Murathan Saygılı (METU), Ibrahim Levent Sezgin (SU YAPI Engineering & Consulting Inc.), Onur Behzat Tokdemir (METU)
Speaker: Murathan Saygılı, Middle East Technical University 11:40-12:00
- 1-hour break for lunch** 12:00-13:00
- Applying Artificial Neural Networks to Capture, Rationalize and Generalize Nonlinear Response of Structural Elements from Advanced Analytical Simulations and Tests**
Ahmet Muhtar Çıtırptıoğlu, (TAV Construction)
Speaker: Ahmet Muhtar Çıtırptıoğlu (TAV Construction) 13:00-13:20
- A Comparison of Optimal Force-based and Performance-based Designs for a Planar Ordinary Moment-Resisting Steel Frame**
Oğuzhan Hasançebi (METU), Hasan Eser (METU)
Speaker: Hasan Eser, Middle East Technical University 13:20-13:40
- Artificial Intelligence Applications in Crude Oil Price Forecasting**
Fetih Kaya (BAU), Can Balkaya (IAU)
Speaker: Fetih Kaya, Bahcesehir University 13:40-14:00
- AI and Big Data Applications: Productivity and Crop Yield in Agriculture**
İrem Dağdemir (BAU), Dilek Heperkan (IAU), Can Balkaya (IAU)
Speaker: İrem Dağdemir, Bahcesehir University 14:00-14:20
- Artificial Intelligence Applications in Big Data: Fraud Detection**
Mehmet Emre ÖZENGEN (BAU), Ali OKATAN (IAU), Can BALKAYA (IAU)
Speaker: Mehmet Emre ÖZENEN, Bahcesehir University 14:20-14:40
- AI Applications in Smart Cities Waste Management & Recycling**
İ. Haluk ÇERİBAŞI (ENCON Environmental Consultancy Co.), Görkem ÖZDENER (BAU)
Speaker: I. Haluk Ceribasi, ENCON Co. 14:40-15:00

PRESENTATIONS ON JUNE 15, 2021, TUESDAY

- AI and Big Data in Transportation Infrastructure for Condition and Risk Assessment**
Can Balkaya (IAU), Erol Tutumluer (UIUC)
Speaker: Can Balkaya, Istanbul Aydin University 10:00-10:20
- On the Exploitation and Exploration Search Behaviors of the Interactive Search Algorithm**
Ali Mortazavi (EU), Mahsa Moloodpoor (EU)
Speaker: Ali Mortazavi, Ege University 10:20-10:40
- Interactive Search Algorithm for Solving Thermal Model of Parabolic Trough Collector Receiver**
Mahsa Moloodpoor (EU), Ali Mortazavi (EU), Necdet Özbalta (EU)
Speaker: Mahsa Moloodpoor, Ege University 10:40-11:00
- Vehicle Classification and Tracking using Convolutional Neural Network Based on Darknet Yolo with Coco Dataset**
Ahmet Doğan (IGU), Ali Okatan (IAU), Ali Çetinkaya (Kocaeli University)
Speaker: Ali Cetinkaya, Kocaeli University 11:00-11:20
- Application of Artificial Intelligence for the Protection of Consumers on the Cyber-Physical System Platform**
G. Moskvins, E. Spakovica, M. Moskvins, Institute of Energetic, Latvia University
Speaker: G. Moskvins, Latvia Univ. of Life Sciences and Technologies 11:20-11:40
- Artificial Intelligence Application in Biosensor**
Ayşe İpek GÖZÜTOK (BAU)
Speaker: Ayşe İpek Gozutok, Bahcesehir University 11:40-12:00
- 1-hour break for lunch** 12:00-13:00
- Artificial Intelligence for Proactive Internal Audit in Business**
Gülnehal Çiçekdağı (BAU), Gökçe Sargut (Governors State Univ., Univ. Park, IL, USA)
Speaker: Gökçe Sargut, Governors State University 13:00-13:20
- Predicting the Remaining Useful Life of Bearing with Long-Short Term Memory Method**
Erkan Caner Ozkat (RTEU)
Speaker: Erkan Caner Ozkat, Recep Tayyip Erdogan University 13:20-13:40
- Creating a Unified Data Collection System for Infrastructure Projects**
Dr. Yunus Emre Ayözen, Bilge Büdeyri, M.Sc. (Republic of Turkey Ministry of Transport and Infrastructure); A. Sinan Alemdar, M.Sc., Ugur Kaya M.Sc. EMAY International Engineering and Consultancy; Assoc. Prof. Dr. Onur Behzat Tokdemir (METU)
Speaker: Onur Behzat Tokdemir, Middle East Technical University 13:40-14:00

Future Interdisciplinary Applications/Workshop & Closing the Conference 14:00-15:00