

# Technical Program

## The IEEE CISOSE 2023 Congress Joint Invited Track

### Vision of Intelligent and Service Oriented Systems Engineering

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| <b>17 June, 10:00 - 11:15</b>                      | <b>Chair: Kuo-Ming Chao, Bournemouth University, UK</b>   |  |
| <b>Invited Track Session 1</b>                     | Nikolaos Lykousas, Vasilios Koutsokostas, ran Casino, Constantinos Patsakis                                     | The Cynicism of Modern Cybercrime: Automating the Analysis of Surface Web Marketplaces         |
| <b>Security and AI</b>                             | Anna Bernasconi   | The opportunity of data-driven services for viral genomic surveillance                         |
| <b>17 June, 11:30 - 12:45</b>                      | <b>Chair: Guido Wirtz, University of Bamberg, Germany</b>   |  |
| <b>Invited Track Session 2</b>                     | Jerry Gao, Jane Wu, Jia Liu, Vani Vineela Aremanda  | Green Energy Cloud -Taxonomy, Infrastructure, Platform, and Services                           |
| <b>AI and ML applications</b>                      | Takis Varelas, Dimitrios Kaklis, Iraklis Varlamis and Artemis Flori   | Improving voyage efficiency in the shipping 4.0 decarbonization era                            |
| <b>17 June, 14:00 - 15:15</b>                      | <b>Chair: Iraklis Varlamis, Harokopio University of Athens, Greece</b>  |  |
| <b>Invited Track Session 3</b>                     | Hong Zhu, Thi Minh Tam Tran, Aduen Benjumea and Andrew Bradley  | A Scenario-Based Functional Testing Approach to Improving DNN Performance                      |
| <b>Engineering Methodology for ML applications</b> | Huanjing Wang, John T. Hancock III, and Taghi M. Khoshgoftaar   | Improving Medicare Fraud Detection through Big Data Size Reduction Techniques                  |
| <b>20 June, 9:45 - 11:00</b>                       | <b>Chair: Hong Zhu, Oxford Brookes University, UK</b>   |  |
| <b>Invited Track Session 4</b>                     | Theodoros Theodoropoulos, Antonios Makris, Ioannis Kontopoulos, Angelos-Christos Maroudis, Konstantinos Tserpes | Multi-Service Demand Forecasting using Graph Neural Networks                                   |
| <b>Intelligent Cloud and Edge</b>                  | Javad Forough, Monowar Bhuyan, Erik Elmroth   | Anomaly Detection and Resolution on the Edge: Solutions and Future Directions                  |
| <b>20 June, 11:15 - 12:30</b>                      | <b>Chair: Jerry Gao, San Jose State University, USA</b>   |  |
| <b>Invited Track Session 5</b>                     | Andrea Morichetta, Nikolaus Spring, Philipp Raith, Schahram Dustdar   | Intent-based Management for the Distributed Computing Continuum                                |
| <b>Cloud-Edge Continuum</b>                        | Marco Gaglianese, Jacopo Soldani, Stefano Forti, Antonio Brogi  | Green Orchestration of Cloud-Edge Applications: State of the Art and Open Challenges           |
| <b>20 June, 14:30 - 15:30</b>                      | <b>Chair: Monowar Bhuyan, Umeå University, Sweden</b>   |  |
| <b>Invited Track Session 6</b>                     | Daisy Adhikari, Wan Chen, Yunao Guo, Lilin Huang, and Jerry Gao   | Wildfire Spreading, Prediction, and Validation Using Remote Sensing Data in Sonoma, California |
| <b>New directions of ML applications</b>           | Thi Bui, Anson Pham, Warada Kulkarni, Yutong Yao, and Katerina Potika   | Classifying Real and Bot Users based on their News Spread for Combating Misinformation         |
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