9th EAI International Conference on

INDUSTRIAL NETWORKS & INTELLIGENT SYSTEMS

EAI INISCOM 2023

AUGUST 2-3, 2023
HO CHI MINH CITY, VIETNAM

Welcome to the International conference of EAI INISCOM 2023

Dear Ladies and Gentlemen,

The European Alliance for Innovation—EAI would like to use this message to welcome you to EAI INISCOM 2023.

We as EAI, would like to use this opportunity to address the whole Organizing Committee, the authors, and all the participants on behalf of EAI. We would like to thank all of you for being a part of this conference and for your involvement with EAI.

Moreover, We would like to tell you a few words about EAI, who we are, and what we do. European Alliance for Innovation is a non-profit organization and a global community for a greener, healthier and smarter world. Until today, we have over 60 000 members from more than 160 countries and 150 000 subscribers. Our mission is to create environments for improving research and to transform the best ideas into commercial value propositions through community cooperation.

Lastly, We would like to use this message to invite you to join us again at the EAI INISCOM 2024. We will keep you updated and the news about the next edition of this event will be announced on the conference website.

Thank you for your attention and enjoy EAI INISCOM 2023!

EUROPEAN ALLIANCE FOR INNOVATION—EAI

KENOTE SPEAKERS:

Dr. Trung Q. Duong (IEEE Fellow and AAIA Fellow) is a Chair Professor of Telecommunications at Queen's University Belfast, U.K. and a Research Chair of the Royal Academy of Engineering, U.K. His current research interests include optimisation, signal processing, and machine learning in wireless communications. He has published more than 420+ published papers with 15,700+ citations and h-index 68. He has served as an Editor for many reputable IEEE journals and been awarded best paper awards in many flagship conferences. He is the recipient of the Royal Academy of Engineering Research Fellowship (2015-2020) and the prestigious Newton Prize 2017. He is a Fellow of IEEE and a Fellow of AAIA.

Dr. Saeed Khosravirad is a member, IEEE) is a Member of Technical Staff at Nokia Bell Labs. In this role, he contributes to innovating the future generation of wireless networks with ultrareliable and low latency communications. He received his Ph.D. degree in telecommunications in 2015 from McGill University, Canada. Prior to that, he received the B.Sc. degree from the department of Electrical and Computer Engineering, University of Tehran, Iran, and the M.Sc. degree from the department of Electrical Engineering, Sharif University of Technology, Iran. During 2018-2019, he was with the Electrical & Computer Engineering department of University of Toronto, Canada as a Visiting Scholar. He is an editor of the IEEE Transactions on Wireless Communications, editor of the IEEE Communications Magazine, and guest editor of the IEEE Wireless Communications magazine. His research fields of interest include wireless communications theory, cellular network technologies with emphasis on ultra-reliable communication for industrial automation, and radio resource management for future cellular networks.

TITLE:

EDGE INTELLIGENCE URLLC FOR 6G DIGITAL TWIN: JOINT COMMUNICATIONS AND COMPUTATION DESIGN

ABSTRACT:

The future generation of wireless communications requires the stringent quality-of-service (QoS) requirements in terms of very high data rate, ultra-high success reception rate, and minimal latency. Supported by high QoS wireless communications, digital twin has become a game-changing technology in many applications including smart city, manufacturing, automotive, gaming, entertaining, and climate resilience. Edge computing-based wireless ultra-reliable and low-latency communications (URLLC) in 6G has been considered as a key technique to realise the full potential of digital twin. This talk discusses a joint communications and computation design of URLLC multi-tier computing in 6G that supports digital twin networks, not only fundamental requirements, but also enabling technologies, visions, and future challenges.

DR. ANTONINO MASARACCHIA

BIO:

Dr. Antonino Masaracchia (Member, IEEE) received the Ph.D. degree in electronics and telecommunications engineering from the University of Palermo, Italy, in 2016. From 2017 to 2018, he was a Postdoctoral Researcher at the Sant'Anna School of Advanced Studies, the BioRobotics Institute. Since September 2018, he has been a Research Fellow with the Centre for Wireless Innovation, Queens University Belfast, U.K. His research interests include fifth generation (5G) and beyond 5G networks (6G) oriented services, convex optimization and applied machine learning techniques to wireless communications, reconfigurable intelligent surfaces (RIS), UAV-enabled networks, and ultra-reliable and low-latency communications (URLLC). He has been awarded with the Seal of excellence for the project proposals UAV-DRESS and UAV-SURE, submitted under the Horizon Europe Marie Skłodowska-Curie Actions in 2020 and 2021 respectively. He is actively working in collaboration with industrial partners in the context of Open RAN (ORAN) architecture.

and Near RT modules in O-RAN. Fundamental requirements, but also enabling technologies, visions, and future challenges will be discussed.

DR. ANTONINO MASARACCHIA

TITLE: DIGITAL TWIN FOR 6G ORAN: TAXONOMY, RESEARCH CHALLENGES, AND THE ROAD AHEAD

ABSTRACT:

Open RAN (O-RAN) Alliance is actively working towards transforming the radio access networks (RAN) industry in a way that both its physical and logical RAN products will be more open, smarter, interoperable, and scalable than contemporary deployments. In this way will be possible to address the inevitable traffic overload of the current networks caused by an expected mobile data traffic explosion, which according to ITU-R will be up to 5016 exabyte per month. Also in this context, the novel and recent concept of DT will play an important key role. Indeed, empowered with artificial intelligence (AI) and machine learning (ML) based mechanisms, DT will support the development of key functionalities of O-RAN architecture like non-real-time (Non-RT) and near real-time (Near-RT) RAN intelligent controller (RIC) modules, used to perform powerful AI aided network performance optimisations. This tutorial discusses a joint communications and computation design of URLLC multi-tier computing in 6G that supports digital twin networks, as well as a possible DT based approach for the implementation of both Non-RT and Near RT modules in O-RAN. Fundamental requirements, but also enabling technologies, visions, and future challenges will be discussed.

Wednesday, 2 August 2023

Day 1	Wed, Aug. 2, 2023	
Time	**Room A (Main hall)**	**Room B**
07:30 am-08:30 am	Registration	
08:30 am-08:45 am	Opening Ceremony	
08:45 am-09:30 am	Keynote: Edge Intelligence URLLC for 6G Digital Twin: Joint Communications and Computation Design	
09:30 am-10:00 am	Coffee break	
10:00 am-10:40 am	Tutorial: Digital Twin for 6G ORAN: Taxonomy, Research Challenges, and the Road Ahead	
10:40 am-12:00 pm	S1-INIS: Industrial Networks and Intelligent Systems	
12:00 pm-02:00 pm	Lunch	
02:00 pm-03:20 pm	S2-TCSN: Telecommunications Systems and Networks	S3-IPDA: Information Processing and Data Analysis
03:20 pm-03:50 pm	Coffee break	
03:50 pm-05:10 pm	S4-TCSN: Telecommunications Systems and Networks	S5-SECP: Security and Privacy
05:10 pm-06:00 pm	Closing Address	
06:00 pm-08:30 pm	**Banquet and Best Paper Award (Venue: TBA)**	

Wednesday, Aug. 2, 07:30 am-08:30 am

Registration

Wednesday, Aug. 2, 08:30 am-08:45 am

Opening Ceremony

Wednesday, Aug. 2, 08:45 am-09:30 am

Keynote:Edge Intelligence URLLC for 6G Digital Twin: Joint Communications and Computation Design

Dr. Trung Q. Duong, Queen's University Belfast, U.K.

Dr. Saeed Khosravirad, Nokia Bell Labs

Room A

Chair: Nguyen-Son Vo, Duy Tan University, Vietnam

Abstract: The future generation of wireless communications requires the stringent quality-of-service (QoS) requirements in terms of very high data rate, ultra-high success reception rate, and minimal latency. Supported by high QoS wireless communications, digital twin has become a game-changing technology in many applications including smart city, manufacturing, automotive, gaming, entertaining, and climate resilience. Edge computing-based wireless ultra-reliable and low-latency communications (URLLC) in 6G has been considered as a key technique to realise the full potential of digital twin. This talk discusses a joint communications and computation design of URLLC multi-tier computing in 6G that supports digital twin networks, not only fundamental requirements, but also enabling technologies, visions, and future challenges.

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Wednesday, Aug. 2, 09:30 am-10:00 am

Coffee break

At the conference venue

Wednesday, Aug. 2, 10:00 am-10:40 am

Tutorial: Digital Twin for 6G ORAN: Taxonomy, Research Challenges, and the Road Ahead

Dr. Antonino Masaracchia, Queen's University Belfast, U.K.

Room A

Chair: Nguyen-Son Vo, Duy Tan University, Vietnam

Abstract: Open RAN (O-RAN) Alliance is actively working towards transforming the radio access networks (RAN) industry in a way that both its physical and logical RAN products will be more open, smarter, interoperable, and scalable than contemporary deployments. In this way will be possible to address the inevitable traffic overload of the current networks caused by an expected mobile data traffic explosion, which according to ITU-R will be up to 5016 exabyte per month. Also in this context, the novel and recent concept of DT will play an important key role. Indeed, empowered with artificial intelligence (AI) and machine learning (ML) based mechanisms, DT will support the development of key functionalities of O-RAN architecture like non-real-time (Non-RT) and near real-time (Near -RT) RAN intelligent controller (RIC) modules, used to perform powerful AI aided network performance optimisations. This tutorial discusses a joint communications and computation design of URLLC multi-tier computing in 6G that supports digital twin networks, as well as a possible DT based approach for the implementation of both Non-RT and Near RT modules in O-RAN. Fundamental requirements, but also enabling technologies, visions, and future challenges will be discussed.

Biography:
Dr. Antonino Masaracchia (Member, IEEE) received the Ph.D. degree in electronics and telecommunications engineering from the University of Palermo, Italy, in 2016. From 2017 to 2018, he was a Post- doctoral Researcher at the Sant'Anna School of Advanced Studies, the BioRobotics Institute. Since September 2018, he has been a Research Fellow with the Centre for Wireless Innovation, Queens University Belfast, U.K. His research interests include fifth generation (5G) and beyond 5G networks (6G) oriented services, convex optimization and applied machine learning techniques to wireless communications, reconfigurable intelligent surfaces (RIS), UAV-enabled networks, and ultra-reliable and low-latency communications (URLLC). He has been awarded with the Seal of excellence for the project proposals UAV-DRESS and UAV-SURE, submitted under the Horizon Europe Marie Skłodowska-Curie Actions in 2020 and 2021 respectively. He is actively working in collaboration with industrial partners in the context of Open RAN (ORAN) architecture.

Wednesday, Aug. 2, 10:40 am-12:00 am

S1-INIS: Industrial Networks and Intelligent Systems

Room A

Chair: Nguyen-Son Vo, Duy Tan University, Vietnam

10:40 am

Adaptive Backstepping Sliding Mode Control for Speed of PMSM and peak DC-link voltage in Bidirectional Quasi Z-Source Inverter

Pham, Cong-Thanh (Department of Aviation Automation, Faculty of Electrical and Electronic, Vietnam Aviation Academy); Nguyen Huu, Chan Thanh (Department of Aviation Automation, Faculty of Electrical and Electronic, Vietnam Aviation Academy); Tran, Quoc Khai (Department of Aviation Automation, Faculty of Electrical and Electronic, Vietnam Aviation Academy); Tran, Van Thien (Department of Aviation Automation, Faculty of Electrical and Electronic, Vietnam Aviation Academy); Hong Nguyen, Duc Tam (Department of Aviation Automation, Faculty of Electrical and Electronic, Vietnam Aviation Academy)

10:55 am

Neural Networks with Variational Quantum Circuits

Rizvi, Syed Muhammad Abuzar (Kyung Hee University); Ulum, Muhammad Shohibul (Kyung Hee University); Asif, Naema (Kyung Hee University); Shin, Hyundong (Kyung Hee University)

11:10 am

Sudden Cardiac Arrest Detection Using Deep Learning and Principal Component Analysis

Pham, Van-Su (Posts and Telecommunications Institute of Technology); Nguyen, Hang-Duy Thi (Posts and Telecommunications Institute of Technology); Le, Hai-Chau (Posts and Telecommunications Institute of Technology); Nguyen, Minh-Tuan (Posts and Telecommunications Institute of Technology)

11:25 am

Experimental study on Fuzzy PD control for Logistics Transportation Mobile Robot (LTMR)

Tran, Khai Quoc (Vietnam Aviation Academy); Nguyen, Thanh Huu Chan (Vietnam Aviation Academy); Pham, Thanh Cong (Vietnam Aviation Academy)

11:40 am

MQTT-CB: Cloud Based Intelligent MQTT Protocol

Erol, Muhammed Raşit (Istanbul Technical University, Computer Engineering Dept.); Bilen, Tuğçe (Istanbul Technical University); Özdem, Mehmet (Innovation & Product and Service Development Directorate, Türk Telekom); Canberk, Berk (School of Computing, Engineering and The Build Environment, Edinburgh Napier University)

Wednesday, Aug. 2, 12:00 am-02:00 pm

Lunch

At the conference venue

Wednesday, Aug. 2, 02:00 pm-03:20 pm

S2-TCSN: Telecommunications Systems and Networks

Room A

Chair: Antonino Masaracchia, Queen's University Belfast, U.K.

02:00 pm

A Smart Agriculture Solution Includes Intelligent Irrigation and Security

Nguyen-Tan, Tang (University of Information Technology – Vietnam National University at HCM City); Dang-Ngoc, Chien (University of Information Technology – Vietnam National University at HCM City); LE-TRUNG, Quan (University of Information Technology – Vietnam National University at HCM City)

02:15 pm

Integrated Intelligent Agent for SNMP-based Network Management System

Ong, Dung Mau (Industrial University of Ho Chi Minh City)

02:30 pm

Genetic Algorithms for Storage- and Energy-aware Caching and Trajectory Optimisation Problem in UAV-assisted Content Delivery Networks

Vo, Nguyen-Son (Duy Tan University, Vietnam); Lam, Thuong Chi (HUTECH University, Vietnam); Nguyen, Thanh-Hieu (Ho Chi Minh City University of Transport, Vietnam); Phan, Thanh-Minh (Vietnam Aviation Academy, Vietnam); Huynh, De-Thu (The Saigon International University, Vietnam)

02:45 pm

Joint Computation Offloading and Resource Allocation for Mobile Edge Computing

Erskine, John (Queen's University Belfast); Huynh, Dang Van (Queen's University Belfast)

03:00 pm

An Open Source Wireless Communication Database for Radio Access Networks

Shengyu, Gao (Shanghai University); Yanzan, Sun (Shanghai University); Jun, Yu (Shanghai University); Yanyu, Huang (Shanghai University); Shunqing, Zhang (Shanghai University); Xiaojing, Chen (Shanghai University); Ming, Gan (Xintu (Wuxi) new energy technology co., ltd)

S3-IPDA: Information Processing and Data Analysis

Room B

Chair: Duc-Man Nguyen, Duy Tan University, Vietnam

02:00 pm

Facial Detection and Classification Using Deep Learning-Building Skin Care System

Nguyen, Duc-Man (Duy Tan University); Chau, Anh-Thu T. (Duy Tan University); Phan, Minh-Phu (Duy Tan University); Dong, Phuoc-An (Duy Tan University); Hoang, Nghia-Khue (Duy Tan University); Tran, Kim-Sanh (Duy Tan University)

02:15 pm

Multi-modal Speech Emotion Recognition: Improving Accuracy through Fusion of VGGish and BERT Features with Multi-head Attention

DANG, NGOC MINH DUC (FPT University); Tran, Nam Phuong (FPT University); Vu, Thuy-Duong Thi (FPT University); Pham, Nhatr Truong (Sungkyunkwan University); Tran, Anh-Khoa (Ton Duc Thang University)

02:30 pm

Performance Analysis of Distributed Learning in Edge Computing on Handwritten Digits Dataset

VO, PHUC TINH (TON DUC THANG University); Nguyen, Viet Anh (FPT University); Nguyen, Xuyen Bao Le (FPT University); DANG, NGOC MINH DUC (FPT University); Tran, Anh Khoa (Ton Duc Thang University)

02:45 pm

FLASH: Facial Landmark detection using Active Shape model and Heatmap regression

Nguyen Van, Nam (Thuyloi University)

Wednesday, Aug. 2, 03:20 pm-03:50 pm

Coffee break

At the conference venue

Wednesday, Aug. 2, 03:50 pm-05:10 pm

S4-TCSN: Telecommunications Systems and Networks

Room A

Chair: Antonino Masaracchia, Queen's University Belfast, U.K.

03:50 pm

Performance Analysis of RF Energy Harvesting Mobile Edge Computing Network using NOMA scheme with Dual Access Points

Vo, Minh Thong (Duy Tan University); Nguyen, Nam Thanh (Duy Tan University); Truong, Truong Van (Duy Tan University); Ha, Dac-Binh (Duy Tan University)

04:05 pm

Joint Design of Reflection Coefficients and Beamforming in Double RIS-Assisted System

Yang, Qiangqiang (Shanghai University); Chen, Yufeng (Shanghai University); Yu, Hongwen (Shanghai University); Tan, Guannan (Huizhou Speed Wireless Technology Company); Masaracchia, Antonino (Queen's University Belfast); Fang, Yong (Shanghai University)

04:20 pm

Hybrid Beamforming Design for Multi-user mmWave Sum Rate Maximization

Wang, Chunyang (Shanghai University); Tan, Guannan (Huizhou Speed Wireless Technology Company); Fang, Yong (Shanghai University); Wei, Hao (ZTE Coperation); Sheng, Zhichao (Shanghai University); Yu, Hongwen (Shanghai University)

04:35 pm

Multiple Mobile Equipment Localization in Indoor Environment Based on Cell Sectoring

Vu, Viet Thuy (Blekinge Institute of Technology); Ivanenko, Yevhen (Blekinge Institute of Technology); Batra, Aman (University of Duisburg-Essen); Pettersson, Mats (Blekinge Institute of Technology)

S5-SECP: Security and Privacy

Room B

Chair: Dac-Binh Ha, Duy Tan University, Vietnam

03:50 pm — Enhancing Load Balancing in Cloud Computing through Deadlock Prediction
Le Ngoc, Hieu (Ho Chi Minh City Open University); Tran Cong, Hung (Posts and Telecommunication Institute of Technology)

04:05 pm — A Secrecy Offloading in Radio Frequency Energy Harvesting NOMA Heterogeneous Mobile Edge Computing Network
Truong, Truong (Duy Tan University); Ha, Dac-Binh (Duy Tan University); Vo, Minh Thong (Duy Tan University)

04:20 pm — An Application of Non Negative Matrix Factorization in Text Mining
Tran, Bao Nguyen (Vietnam Aviation Academy); Huynh, Son Thanh (Vietnam Aviation Academy); To, Lam Ba (Vietnam Aviation Academy); Nguyen, Tuan Luong Anh (Vienam Aviation Academy)

04:35 pm — Mitigating and Analysis of Memory Usage Attack in IoE system
Al-Waisi, Zainab (IMT school for advanced studies); Soderi, Simone (IMT School for Advanced Studies); De Nicola, Rocco (IMT School for Advanced Studies)

04:50 pm — Physical Layer Security of Heterogenous Networks with Unreliable Wireless Backhaul and Small Cell Selections
O'Boyle, Eoin (Queens University Belfast); Yin, Cheng (University of Surrey)

Wednesday, Aug. 2, 05:10 pm-06:00 pm

Closing address

Room A

Wednesday, Aug. 2, 06:00 pm-08:30 pm

Banquet and Best Paper Award

Venue: TBA

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For more information, please contact:

secretariat@eai.eu

EAI
EUROPEAN ALLIANCE FOR INNOVATION

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With over 40.000 members from 167 countries, EAI engages the global community to explore ways in which innovation in technology and business can benefit society at large.

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Visit:

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Or contact:

conferences@eai.eu

Thank you for participating at EAI conference and

We hope to see you again!