

# On site Activities (*preliminary*) Program

Conference Hotel

Conference Venue Location

Conference will be mixed online and on location at

Mercure Lisboa  
Av Jose Malhoa 23  
1099-051 Lisboa  
Portugal

Updated as of September 5, 2025

The program will be continuously updated.

NexTech 2025: <https://www.iaria.org/conferences2025/ProgramUBICOMM25.html>

SoftNet 2025: <https://www.iaria.org/conferences2025/ProgramICSEA25.html>

Timezone converter: <https://www.worldtimebuddy.com/>

Time slots	Activity
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## Sunday, Sept 28

11:30am	<b>Registration starts</b> The registration desk is in front of the conference rooms The reception is operating during the entire conference.
13:30 - 13:45	<b>Opening session</b>
13:30 - 14:30	<b>Tutorial I - TBD</b> Theme Lecturer Chair
14:30 - 15:00	<b>Coffee Break</b>
15:00 - 16:00	<b>Tutorial II - TBD</b> Theme Lecturer Chair
16:00 - 16:15	<b>Break</b>
16:15 - 17:15	<b>Tutorial III - TBD</b> Theme Lecturer Chair
17:15 - 17:30	<b>Break</b>
18:00 - 19:00	<b>Tutorial IV - TBD</b> Theme Lecturer

	<b>Chair</b>
19:00 - 20:30	<b>Welcome Cocktail</b>

## Monday, Sept 29

09:00 - 10:00	<b>Keynote Speech</b> Simulation in Action: Designing Robust Urban Energy Strategies in a Changing World <b>Speaker</b> Prof. Dr. Mart Verhoog, IU Internationale University of Applied Sciences, Germany <b>Chair</b> Marko Jäntti	
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:15	<b>Session 1 [AISys, DATA ANALYTICS, CYBER, AMBIENT]</b>	<b>Session 7 [ICSNC, UBICOMM]</b>
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	<b>Session 2 [GLOBAL HEALTH, SIMUL]</b>	<b>Session 8 [UBICOMM, ADVCOMP]</b>
15:45 - 16:15	<b>Coffee Break</b>	
16:15 - 18:00	<b>Panel #1</b> <b>Theme:</b> Dynamics in Social Networks - Scalable Monitoring Moderator: Dr. Rainer Falk, Siemens AG, Germany <b>Panelists</b> <b>TBD</b>	
18:00 - 19:00	<b>Coffee &amp; Networking</b>	

## Tuesday, Sept 30

09:00 - 10:00	<b>Keynote Speech</b> Software Engineering Excellence: The Backbone of Modern IT Service Management <b>Speaker</b> Prof. Dr. Marko Jäntti, University of Eastern Finland, Finland <b>Chair</b> Mart Verhoog	
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:15	<b>Session 3 [CENTRIC, SIMUL]</b>	<b>Session 9 [DATA ANALYTICS, INNOV]</b>
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	<b>Session 4 [ICSEA]</b>	<b>Session 10 [CYBER]</b>
15:45 - 16:15	<b>Coffee Break</b>	
16:15 - 18:00	<b>Panel #2</b> <b>Theme:</b> Digital Literacy and Users Awareness <b>Moderator</b> Prof. Dr. Joseph G Vella, University of Malta, Malta <b>Panelists</b> <b>TBD</b>	
18:00 - 19:00	<b>Coffee &amp; Networking</b>	

## Wednesday, Oct 1

09:00 - 10:00	<b>Keynote Speech</b>
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	<b>Balancing Safety and Security: A New Approach to Cyber Resilience in Healthcare</b> <b>Speaker</b> Prof. Dr. Hiroki Takakura, National Institute of Informatics, Japan <b>Chair</b> Rainer Falk	
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:15	<b>Session 5 [ICSEA, SIMUL]</b>	<b>Session 11 [AISyS, CYBER]</b>
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	<b>Session 6 [ICSEA, AISyS]</b>	<b>Session 12 [EMERGING, AISyS]</b>
15:45 - 16:15	<b>Coffee Break</b>	
16:15 - 18:00	<b>Panel #3</b> <b>Theme:</b> Trends in Software Simulation and Testing <b>Moderator</b> Prof. Dr. Roy Oberhauser, Aalen University, Germany <b>Panelists</b> <b>TBD</b>	
18:00 - 19:00	<b>Coffee &amp; Networking</b>	
19:00 - 23:00	<b>Conference Dinner</b>	

## Thursday, Oct 2

09:00 - 10:00	<b>Keynote Speech</b> Conversational AI Agents: The Intricacies of Robust Dialogue Management <b>Speaker</b> Dr. Steve Chan, VTIRL, VT, USA <b>Chair</b> Hirokazu Hasegawa	
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:15	<b>Panel #4</b> <b>Theme:</b> Cyber Resilience - Pre-AI vs. AI-Enhanced Approaches <b>Moderator</b> Dr. Steve Chan, VTIRL, VT, USA <b>Panelists</b> <b>TBD</b>	
12:15 - 12:45	<b>Coffee Break</b>	
12:45 - 14:15	<b>Session 13 [CYBER, VALID, SIMUL]</b>	
14:15 - 14:30	<b>Coffee Break</b>	
14:30 - 16:00	<b>Session 14 [TBD]</b>	
16:00 - 16:30	<b>Farewell &amp; Closing Session &amp; Coffee</b>	

**Recommended tourist objectives to be visited on your own:**

### Sintra

National Palace - Sintra

Pena Palace - São Pedro de Penaferrim

Moorish Castle – Sintra

### Lisbon

The Medieval Borough of Alfama

Lisbon's Borough of Belém  
Tower of Belém  
National Coaches Museum  
Monastery of the Jerónimos (Hieronymite Monks, built in 1502)  
Panoramic: Commerce Square, Downtown, Rossio Square, Avenue da Liberdade and Campo Grande  
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## **SESSIONS**

### **Session 1 [AISys, DATA ANALYTICS, CYBER, AMBIENT] Monday A - morning**

Session Chair: Deepa Chandra Segaran

40021 Evaluation of Event-Triggered Algorithm to Minimise Differences from Real Values to Digital Twin and Balancing Energy Efficiency Applied to Rainfed Crops  
Jaime Lloret Mauri, Universitat Politècnica de València, Spain

80022 Risk-Aware HTN Planning Domain Models for Autonomous Vehicles and Satellites  
Ebaa Alnazer, University of Stuttgart, Germany

60037 Trigger Injection via Clustering for Backdoor Attacks on Heterogeneous Graphs  
Honglin Gao, Nanyang Technological University, Singapore

80054 The Domain Name Life Cycle as an Attack Surface: Systematic Threat Mapping and Defense Recommendations  
Thomas Fritzler, Hochschule Darmstadt, Germany

### **Session 2 [GLOBAL HEALTH, SIMUL] Monday A - afternoon**

Session Chair Thomas Fritzler

70081 Global Surgery Practical Course - Assessment of Needs and Outcomes  
Deepa Chandra Segaran, Sengkang General Hospital, Singapore

70084 Impact of the COVID-19 Pandemic on Emergency Care for Severe Non-COVID Patients: A Nationwide Retrospective Analysis by Phase  
Hyo Jin Kim, National Emergency Medical Center, National Medical Center, Republic of Korea

70092 Postural-Change Detection Before and After Hemodialysis Using MediaPipe  
Yasutaka Uchida, Teikyo University of Science, Japan

50017 Highly Modular and Immersive Human-in-the-Loop Driving Simulators Using the CARLA Simulation Environment  
Patrick Rebling, Karlsruhe University of Applied Sciences, Germany

### **Session 3 [CENTRIC, SIMUL] Tuesday A - morning**

Session Chair: Katja Karhu

30007 Recommendations and Checklists for Developing More Accessible and Comprehensive Browser Cookie Consent Banners  
Joschua Thomas Simon-Liedtke, Norsk Regnesentral, Norway

30011 Identification of Design Recommendations for Augmented Reality Authors in Corporate Training  
Stefan Graser, RheinMain University of Applied Sciences, Germany

30017 Obstacles and Solutions to the Standards Landscape for a Self-Sovereign Identity Ecosystem  
Erik Hieta-aho, VTT Technical Research Centre of Finland, Finland

50027 Algorithm for Predicting Radioactivity of Decommissioning Nuclear Power Plant  
Changyeon Yoon, KHNP Central Research Institute, South Korea

**Session 4 [ICSEA] Tuesday A - afternoon**

Session Chair: Joschua Thomas Simon-Liedtke

10046 Designing for Quality in IoT: A User-Inclusive Approach to Non-Functional  
Lasse Harjumaa, Kokkola University Consortium Chydenius, Finland

10051 Protocol-aware Cloud Gateway with Adaptive Rate Control  
Ivana Kovacevic, Faculty of Technical Sciences, Serbia

10059 Barriers and Enablers of AI Adoption in Software Testing: A Secondary Study  
Katja Karhu, LUT University, Finland

10065 Software Engineering for Educational AI Applications: Insights from Student Requirements for a VR Coaching System  
Yvonne Sedelmaier, SRH University of Applied Sciences, Germany

**Session 5 [ICSEA, SIMUL] Wednesday A - morning**

Session Chair: Lasse Harjumaa

10068 On the keeping models in the system design and implementation  
Radek Koci, Brno University of Technology, Czech Republic

10077 VR-DeltaDebugging: Visualization Support for Delta Debugging in Virtual Reality  
Roy Oberhauser, Aalen University, Germany

50052 Introduction of Reinforcement Learning into Automatic Stacking of Wave-dissipating Blocks  
Hao Min Chuah, Niigata University, Japan  
Tatsuya Yamazaki, Niigata University, Japan

50106 Traditional Statistics and Machine Learning in Social Network Analysis: A Comparative Reanalysis of Empirical Data  
Mart Verhoog, IU International University of Applied Sciences, Germany

**Session 6 [ICSEA, AISyS] Wednesday - afternoon**

Session Chair: Radek Koci

10015 How Digital Experiments Support Sustainability in a Forest Machine Operator Company: A Case Study  
Marko Jäntti, University of Eastern Finland, Finland

10063 Ethical Considerations of Using Generative AI in Software Development  
Lasse Harjumaa, Kokkola University Consortium Chydenius, Finland

80033 VR-ANN: Visualization of Artificial Neural Network Models in Virtual Reality

Roy Oberhauser, Aalen University, Germany

**Session 7 [ICSNC, UBICOMM] Monday B - morning**

Session Chair: Antonio Gambale

20011 Field Measurement of Multi-band Maritime 5G Communication Performance in Deep Sea Environments  
Yang Kun, Zhejiang Ocean University, China

10013 Low-Power Distributed Acoustic Sensor Network for Autonomous Wildlife Monitoring Using LoRa and AI for Digital Twin  
Jaime Lloret Mauri, Universitat Politècnica de València, Spain

20016 Artificial Intelligence-Based Local Weather Forecasting for Agricultural Digital Twins Using Machine Learning and Deep Learning Models  
Jaime Lloret Mauri, Universitat Politècnica de València, Spain

**Session 8 [UBICOMM, ADVCOMP] Monday B - afternoon**

Session Chair: Maria-Georgiana Butaru

10005 On the Pseudo-Bayesian Broadcast Control Algorithm for Slotted ALOHA in Multi Packet Reception and under Impaired Channel Conditions  
Vicente Casares-Giner, Universitat Politècnica de València, Spain

20008 Orientation Prediction in Robotics: A Study of Trigonometric Decomposition Methods Across Synthetic and Real-World Datasets  
Antonio Gambale, Ulster University, Northern Ireland

20006 Implementing a Communications Infrastructure to Optimize Public Services for Communities  
Maria-Georgiana Butaru, National University of Science and Technology POLITEHNICA Bucharest, Romania

**Session 9 [DATA ANALYTICS, INNOV] Tuesday B - morning**

Session Chair: Kathy-Ann Fletcher

60018 Parametric Optimization and Intelligent CAD Automation for Bicycle Frame Design via Multi Agent  
Chon Kit Chan, Feng Chia University, Taiwan

60065 Achieving Near Real-Time Data Freshness in Fraud Detection: An HTAP Approach  
Joseph G Vella, University of Malta, Malta

70013 A note on structure compatibility for large scale structure learning  
Sung-Ho Kim, Korea Advanced Institute of Science and Technology, South Korea

70020 Design, Operation, and Field Testing of MoBI: A Smart Buoy for Coastal Monitoring  
Matteo Anedda, University of Cagliari, Italy

**Session 10 [CYBER] Tuesday B - afternoon**

Session Chair: Matteo Anedda

80074 From Stakeholder Needs to Secure Digital Twin Services: Critical Infrastructure Use Cases within the INTACT Framework  
Ilinca-Laura Burdulea, Fraunhofer IPK, Germany

80084 Proposal and Implementation of a Security Enhancement Method using Route Hopping MTD for Mesh Networks

Yuto Ikeda, Graduate School and Faculty of Information Science and Electrical Engineering, Kyushu University, Japan

80087 Integrating Cybersecurity and Digital Marketing Effectiveness: Developing a Cohesive Framework for SME Resilience

Kathy-Ann Fletcher, Abertay University, UK

80093 Temporary Identification Management System Using UNIX Time for IoT Device Privacy Protection

Koki Mizoguchi, The Graduate University for Advanced Studies, Japan

### **Session 11 [AISyS, CYBER] Wednesday B - morning**

Session Chair: Josefa Gómez

80019 Learner Models — Requirements and Legal Issues for the Development and Application of Learner Models

Felix Böck, Coburg University of Applied Sciences, Coburg, Germany

80031 Fuzzy agent-based modelling and simulation of autonomous vehicle fleets for automatic baggage handling in 4.0 airports

Alain-Jerome Fougeres, ECAM, France

80100 A Privacy-preserving CCTV Video Processing Pipeline

Gábor György Gulyás, Vitarex Stúdió Ltd., Hungary

80058 Attesting the Trustworthiness of a Credential Issuer

Rainer Falk, Siemens AG, Germany

### **Session 12 [EMERGING, AISyS, CYBER] Wednesday B - afternoon**

Session Chair: Felix Böck

50002 Latency Optimization in IoT Networks Using SD-WAN Edge Computing

Nader Mir, San Jose State University in California, USA

50018 A Neural Approach to Ray Tracing for Realistic Wireless Channel Simulation in Indoor and Urban Scenarios

Josefa Gómez, University of Alcala, Spain

80017 A Prospective Monotonic/Non-Monotonic Transition Zone Impediment for Concept Model-Centric Artificial Intelligence Systems

Steve Chan, VTIRL, VT/DE-STEAM, USA

80095 A File Access Permission Management System to Realize Task Transfer during Cyber Attacks

Hidetoshi Kawai, The Graduate University for Advanced Studies, Japan

### **Session 13 [CYBER, VALID, SIMUL] Thursday A - morning**

Session Chair: Steve Chan

80061 Selecting Cybersecurity Requirements: Effects of LLM Use and Professional Software Development Experience

Damjan Fujs, University of Ljubljana, Slovenia

Damjan Vavpotič, University of Ljubljana, Slovenia  
Tomaž Hovelja, University of Ljubljana, Slovenia

40003 The Future of Software Testing  
Jos van Rooyen, Huis voor softwarekwaliteit, the Netherlands

50092 Generalizable Spatiotemporal Reinforcement Learning Model for Maritime Search Path Planning  
Pengcheng Yang, National University of Defense Technology, China

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