

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 8, 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	Registration starts The registration desk is in front of the conference rooms The reception is operating during the entire conference.
13:30 - 13:45	Opening session
13:30 - 14:30	Tutorial I Theme: Business Intelligence & Digital Literacy - Empowering Users with Data Awareness Lecturer CTO Avishay Bason, Thinkwise, Israel Chair Petre Dini
14:30 - 15:00	Coffee Break
15:00 - 16:00	Tutorial II - TBD Theme Lecturer Chair
16:00 - 16:15	Break
16:15 - 17:15	Tutorial III - TBD Theme Lecturer Chair
17:15 - 17:30	Break

18:00 - 19:00	Tutorial IV - TBD Theme Lecturer Chair
19:00 - 20:30	Welcome Cocktail

Monday, Sept 29

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

Tuesday, Sept 30

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

Wednesday, Oct 1

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

Thursday, Oct 2

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

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

50098 Modular and Reproducible Simulator Architecture for Composable Cloud Systems

Joaquín Entrialgo, Polytechnical University of Madrid, Spain

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, SIMUL] 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 Harjuma, Kokkola University Consortium Chydenius, Finland

80033 VR-ANN: Visualization of Artificial Neural Network Models in Virtual Reality
Roy Oberhauser, Aalen University, Germany

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

Session 7 [ICSNC, UBICOMM, SIMUL] 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

50008 Enhancing Building Retrofit Decision-Making: A Synergistic Approach Combining Calibrated Simulations
Navid Shirzadi, Natural Resources Canada, Canada

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: Dieter Landes

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 Software Kwaliteit, the Netherlands

50063 Simulation Modeling of Multi-Agent Coordination in Maritime Emergency Response Systems

Jing Xu, National University of Defense Technology, China

50086 Dynamic Uncertainty Simulation for Path Optimization Maritime Search and Rescue

Yingying Gao, National University of Defense Technology, China

Session 14 [TBD] Thursday A - afternoon

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