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 25, 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

Sunday, Sept 28

	Registration starts	
11:30am	The registration desk is in front of the conference rooms	
	The reception is operating during the entire conference.	
13:00 - 13:15	Opening session	
	Open Discussion I	
13:15 - 13:45	Theme: AI-based Tools and Überveillance Awareness	
15.15 - 15.45	Moderator	
	Prof. Dr. Petre Dini, IARIA, USA/EU	
13:45 - 14:00	Coffee	
	Tutorial I	
	Theme: Business Intelligence & Digital Literacy - Empowering Users with Data	
	Awareness	
14:00 - 15:00	Lecturer	
	CTO Avishay Bason, Thinkwise, Israel	
	Chair	
	Petre Dini	
15:00 - 15:30	Coffee Break	
	Tutorial II	
	Theme: Marginal Information and its use for Structure Learning	
15:30 - 16:30	Lecturer	
	Prof. Dr. Sung-Ho Kim, Dept of Mathematical Sciences, KAIST, Daejeon, South Korea	
	Chair	

	Avishay Bason
16:30 - 16:45	Break
	Tutorial III
	Theme: Spatial Data Management for Analytics
16:45 - 17:45	Lecturer
10.43 - 17.43	Prof. Dr. Joseph G Vella, University of Malta, Malta
	Chair
	Sung-Ho Kim
17:45 - 18:00	Break
	Tutorial IV
	Theme: User Experience Evaluation of Augmented Reality
19.00 10.00	Lecturer
18:00 - 19:00	Ph.D. Candidate Stefan Graser, Hochschule RheinMain – Wiesbaden, Germany
	Chair
	Joseph G Vella
19:00 - 20:30	Welcome Cocktail

Monday, Sept 29

	Keynote Speech	
09:00 - 10:00	Simulation in Action: Designing Robust Urban Energy Strategies in a Changing World	
	Speaker	
09.00 - 10.00	Prof. Dr. Mart Verhoog, IU Internationale University of Applied Sciences, Germany	
	Chair	
	Marko Jäntti	
10:00 - 10:30	Coffee Break	
10:30 - 12:15	Session 1 [AISys, DATA ANALYTICS, CYBER, AMBIENT]	Session 7 [ICSNC, UBICOMM, SIMUL]
12:15 - 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	
	Panel #1	
	Theme: Dynamics in Social Networks - Scalable Monitoring	
	Moderator	
	Dr. Erik Hieta-aho, VTT, Technical Research Centre of Finland, Finland	
	Pane	elists
16:15 - 17:45		
10.13	Prof. Dr. Mart Verhoog, IU Internationale University of Applied Sciences, Germany	
	Prof. Dr. Sung-Ho Kim, Korea Advanced Institute of Science and Technology (KAIST)	
	South Korea	
	Dr. Rainer Falk, Siemens AG, Germany	
	Prof. Dr. Petre Dini, IARIA USA/EU	
45 45 40 00	Dr. Erik Hieta-aho, VTT, Technical Research Centre of Finland, Finland	
17:45 - 18:00		ffee
18:00 - 19:00	Session 14 [SOTICS, GLOBAL HEALTH]	Session 17 [SIMUL]

	Keynote	e Speech
09:00 - 10:00	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 - 12:15	Session 3 [CENTRIC, SIMUL]	Session 9 [DATA ANALYTICS, INNOV]
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	Session 4 [ICSEA]	Session 10 [CYBER]
15:45 - 16:15	Coffee Break	
	Panel #2	
	Theme: Digital Literacy and Users Awareness	
	Moderator	
	Prof. Dr. Joseph G Vella, University of Malta, Malta	
16:15 - 17:45	Panelists	
10.13 - 17.43	Dr. Lasse Harjumaa, Kokkola University Consortium Chydenius, Finland	
	Ph.D. Cand. Stefan Graser, RheinMain University of Applied Sciences, Germany	
	Avishay Bason, Thinkwise, Israel	
	Prof. Dr. Joshua Ebere Chukwuere, North-West University, South Africa	
	Prof. Dr. Joseph G Vella, University of Malta, Malta	
17:45 - 18:00	Coffee	
18:00 - 19:00	Session 15 [AISyS, GLOBAL HEALTH]	Session 18 [SIMUL]

Wednesday, Oct 1

	Keynote	Sneech
	Keynote Speech Balancing Safety and Security: A New Approach to Cyber Resilience in Healthcare	
	Speaker	
09:00 - 10:00	Prof. Dr. Hiroki Takakura, National Institute of Informatics, Japan	
	Chair	
	Sibylle Fröschle	
10:00 - 10:30	Coffee Break	
10:30 - 12:15	Session 5 [ICSEA, SIMUL] Session 11 [AISyS]	
12:15 - 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	
	Panel #3	
	Theme : Trends in Software Simulation and Testing	
	Moderator	
	Prof. Dr. Roy Oberhauser, Aalen University, Germany	
16 15 17 45	Panelists	
16:15 - 17:45	Prof. Dr. Marko Jäntti, University of Eastern Finland, Finland	
	Prof. Dr. Radek Kočí, Brno University of Technology, Czech Republic	
	Mgr Jos van Rooijen, Huis voor Software Kwaliteit, the Netherlands	
	Prof. Dr. Sibylle Fröschle, TU Hamburg, Germany	
	Prof. Dr. Roy Oberhauser, Aalen University, Germany	
17:45 - 18:00	Coffee	
18:00 - 19:15	Session 16 [ICSEA, SIMUL]	Session 19 [SIMUL, CYBER]

19:30 - 23:00	Conference Dinner

Thursday, Oct 2

	Keynote Speech	
	Conversational AI Agents: The Intricacies of Robust Dialogue Management	
09:00 - 10:00	Speaker	
09.00 - 10.00	Dr. Steve Chan, VTIRL, VT, USA	
	Chair	
	Hirokazu Hasegawa	
10:00 - 10:30	Coffee Break	
	Panel #4	
	Theme: Cyber Resilience - Pre-AI vs. AI-Enhanced Approaches	
	Moderator	
	Dr. Steve Chan, VTIRL, VT, USA	
10:30 - 12:15	Panelists	
10.30 - 12.13	Pr. Res. Masahito Kumazaki, National Institute of Informatics, Japan	
	Dr. Damjan Fujs, University of Ljubljana, Slovenia	
	Dr. Kathy-Ann Fletcher, Abertay University, UK	
	Dr. Gábor György Gulyás, Vitarex Stúdió Ltd., Hungary	
	Dr. Steve Chan, VTIRL, VT, USA	
12:15 - 12:45	Coffee Break	
12:45 - 14:30	Session 13 [CYBER, VALID, SIMUL]	
14:30 - 14:45	Coffee Break	
	Open Discussion II	
	Theme: Goals Processing in Agentic Frameworks	
14:45 - 15:30	Moderators	
	Dr. Steve Chan, VTIRL, VT, USA	
	Prof. Dr. Petre Dini, IARIA, USA/EU	
15:30 - 16:00	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

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 Univiersity 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, Czeck 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 Harjumaa, 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

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

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

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] Wednesday B - morning

Session Chair: Josefa Gómez

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

Dieter Landes, 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

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-STEA, 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

50022 Decision Modeling for Unmanned Swarm Suppression of Enemy Air Defenses Based on Deep Reinforcement Learning

Xiao Hu, College of Systems Engineering, National University of Defense Technology, China

Session 14 [SOTICS, GLOBAL HEALTH] Monday A - late

Session Chair: Sung-Ho Kim

60030 Modeling Quarantine Intervention for Varied Toxic Intensities Nitin Agarwal, COSMOS Research Center, University of Arkansas at Little Rock; ICSI, University of California, Berkeley, USA

70076 Reimagining Healthcare: A Ghana-U.S. Comparative Lens on Equity, Access, and Policy Reform Lola Adepoju, University of Houston College of Medicine, United States

Session 15 [AISyS, GLOBAL HEALTH] Tuesday A - late

Session Chair: Joseph G Vella

80013 The disruptiveness of artificial intelligence in higher education: A focus on academic roles, tasks, and creative autonomy

Joshua Ebere Chukwuere, North-West University, South Africa

70116 Comparing the Effect of Digital Health Interventions on Anxiety and Depression in Individuals Facing Cancer: A Systematic Review and Meta-analysis Aljomaa Seba, Semmelweis University, Hungary

Session 16 [ICSEA, SIMUL] Wednesday A - late

Session Chair: Roy Oberhauser

10048 Performance Evaluation of Software Transactional Memory Implementations Dániel Urbán, Nokia Bell Labs, Hungary

50035 Maximizing detection efficiency of CZT and Scintillator Detectors - A Monte Carlo Study Changyeon Yoon, KHNP Central Research Institute, South Korea

50108 A Framework for Demonstrating and Mitigating CAN Injection Attacks in Vector CANoe a Case Study Using ABS

Uma Kulkarni, Hamburg University of Technology, Germany

Session 17 [SIMUL] Monday B - late

Session Chair: Erik Hieta-aho

50056 Building a Deterministic Simulation Environment for Software-Defined Vehicles Motohiro Shibakawa, DENSO AUTOMOTIVE Deutschland GmbH, Germany

50098 Modular and Reproducible Simulator Architecture for Composable Cloud Systems Joaquín Entrialgo, Polytechnical University of Madrid, Spain

50032 Feasibility Study of Simplification of Radiation Source Shape Using Monte Carlo N-Particle Transport (MCNP)

Changyeon Yoon, KHNP Central Research Institute, South Korea

Session 18 [SIMUL] Tuesday B - late

Session Chair: Stefan Graser

50063 Simulation Modeling of Multi-Agent Coordination in Maritime Emergency Response Systems Jing Xu, National University of Defense Technology, China

50081 Advanced Simulation Framework for UAV Path Planning Integrating Monte Carlo Prediction and MAPPO

Yingying Gao, National University of Defense Technology, China

Session 19 [SIMUL, CYBER] Wednesday B - late

Session Chair: Jos van Rooijen

80109 Integrating the Technical Level into a Model-based Safety and Security Analysis: Why it is Necessary and How it Can be Done

Sibylle Fröschle, Hamburg University of Technology, Germany

50086 Dynamic Uncertainty Simulation for Path Optimization Maritime Search and Rescue Yingying Gao, National University of Defense Technology, China

50068 Distributed Simulation of Multi-Agency Coordination in Maritime Emergencies Jing Xu, National University of Defense Technology, China