

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 April 24, 2026

The program will be continuously updated.

ComputationWorld 2026: <https://www.iaria.org/conferences2026/ComputationWorld26.html>

DataSys 2026: <https://www.iaria.org/conferences2026/DataSys26.html>

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

Time slots	Activity
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Sunday, April 19

12:30pm	Registration starts The registration desk is in front of the conference rooms. It is open during the entire conference.
14:00 - 14:15	Opening session
14:15 - 15:15	Keynote Speech Theme: AI Reasoning - Current Challenges & Future Opportunities Speaker Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA Chair Carlos Peña
15:15 - 15:30	Coffee Break
15:30 - 16:30	Tutorial I Theme: Designing Clinical Studies and Navigating the FDA Approval Process in the USA Lecturer Carlos Peña, PhD, MS, Chief Regulatory Officer and Chief Quality Officer, Jacobs Institute - Buffalo, USA Chair Petre Dini
16:30 - 16:45	Coffee
16:45 - 17:45	Ad Hoc Contest Theme: Ideation & Rapid Innovation Challenge Coordinators and Judges

	Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA Dr. Robert Polding, Assistant Vice Dean of Computing and Data Science, IE University, Spain
17:45 - 18:00	Coffee
18:00 - 19:00	Keynote Speech Theme: Rise of the Robots: From Mechanical Turtles to Intelligent Humanoids Speaker Dr. Robert Polding, Assistant Vice Dean of Computing and Data Science, IE University, Spain Chair Srinath Perera
19:00 - 20:30	Welcome Cocktail

Monday, April 20

09:00 - 10:00	Keynote Speech Cybersecurity – Current Threats and Future Challenges Speaker Prof. Dr. Andreas Aßmuth, Kiel University of Applied Sciences, Germany Chair George R S Weir
10:00 - 10:30	Coffee Break
10:30 - 12:15	Session 1 [CLOUD COMPUTING] Session 9 [PATTERNS, AIVR]
12:15 - 14:00	Lunch on your own
14:00 - 15:45	Session 2 [CROSS-SEC I] Session 10 [MOBILITY, SPWID]
15:45 - 16:15	Coffee Break
16:15 - 17:45	Session 3 [CROSS-SEC II] Session 11 [COGNITIVE I]
17:45 - 18:00	Coffee
18:00 - 19:30	Panel #1 Theme: AI and Cybersecurity: Attacker's Best Friend or Defender's Last Hope? Moderator Prof. Dr. Andreas Aßmuth, Kiel University of Applied Sciences, Germany Panelists Prof. Dr. Patrick Levi, OTH Amberg-Weiden, Germany Dr. Mika Helsingius, Finnish Defence Research Agency, Finland Lena Sinterhauf, NetUSE AG, Germany Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA Prof. Dr. Ian Ferguson, Abertay University, UK

Tuesday, April 21

09:00 - 10:00	Keynote Speech Internet of Things - Toward a Better-connected World? Speaker Lect. & Adj. Prof. Dr. George R S Weir, University of Strathclyde, Glasgow, UK Chair Andreas Aßmuth
10:00 - 10:30	Coffee Break

10:30 - 12:15	Session 4 [CROSS-SEC III, SERV COMP]	Session 12 [COGNITIVE II]
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	Session 5 [CROSS-SEC IV]	Session 13 [ICIMP, SMART]
15:45 - 16:00	Coffee Break	
16:00 - 17:45	Session 6 [CROSS-SEC V, FUTURE and CLOUD COMP.]	Session 4 [SMART, SPWID]
17:45 - 18:00	Coffee	
18:00 - 19:30	<p align="center">Panel #2 Theme: Is the Cloud Still Just Infrastructure? Rethinking Data Processing in Intelligent Systems Moderator Prof. Dr. Christoph Neumann, Ostbayerische Technische Hochschule Amberg-Weiden, Germany Panelists Wolfgang Forstmeier, Siemens AG, Germany Dr. Raju Shrestha, Oslo Metropolitan University (OsloMet), Norway Kunal Rao, NEC Laboratories America, Inc., USA Jorge Carola, Siemens SA, Portugal</p>	

Wednesday, April 22

09:00 - 10:00	<p align="center">Keynote Speech Software Engineering in AI/LLM Era Speaker Kunal Rao, NEC Laboratories America/Integrated Systems Department - Princeton, USA Chair Eugen Borcoci</p>	
10:00 - 10:30	Coffee Break	
10:30 - 12:15	Session 7 [GenAI4CLOUD]	Session 15 [BIMS/BUSTECH]
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	Session 8 [Hyper-CC]	Session 16 [CPAI/COGNITIVE, SMART]
15:45 - 16:15	Coffee Break	
16:15 - 17:45	<p align="center">Panel #3 Theme: Challenges in Human-Machine Reasoning and Co-Existence Moderator Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA Panelists Assoc. Prof. Dr. Herodotos Herodotou, Cyprus University of Technology, Cyprus Dr. André Frank Krause, Rhine-Waal University of Applied Sciences, Germany Stud. Naavya Shetty, University of Illinois Urbana-Champaign, USA Prof. Dr. Kristina Schaaff, IU International University of Applied Sciences, Germany</p>	
17:45 - 18:00	Coffee	
18:00 - 18:45	<p align="center">Open Discussion I Theme: The Danger of Synthetic Use Cases Moderators Prof. Dr. Maik Drozdzyński, IU International University of Applied Sciences, Germany</p>	

	Dsc Phd Eng., Assoc. Prof. Katarzyna Dohn, Silesian University of Technology, Poland Prof. Dr. Petre Dini, IARIA, USA/EU
19:00 - 23:00	Conference Dinner (Mercure Hotel, same floor)

Thursday, April 23

09:00 - 10:15	Panel #4 Theme: Complex Systems and Protection of Critical Infrastructure Moderator Prof. Dr. Malte Prieß, HAW Kiel - Faculty of Computer Science and Electrical Engineering, Germany Panelists Lect. & Adj. Prof. Dr. George R S Weir, University of Strathclyde, Glasgow, UK Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA
10:15 - 10:30	Coffee Break
10:30 - 11:30	Keynote Speech AI-based Path Planning for Unmanned Aerial Vehicles Speaker Prof. Dr. Ing. Eugen Borcoci, Universitatea Națională de Știință și Tehnologie Politehnica Bucuresti, (UNSTPB), Romania Chair Thomas Nitsche
11:30 - 11:45	Coffee
11:45 - 12:45	Open Discussion Theme: Useful Conversational Chatbots or Social Junk Food? Moderators Prof. Dr.-Ing. Thomas Nitsche, Hochschule Niederrhein, Germany Prof. Dr. Petre Dini, IARIA, USA/EU
12:45 - 13:00	Farewell & Closing Session & Coffee

Recommended tourist objectives to be visited on your own:

Sintra

Sintra - National Palace
Pena Palace - São Pedro de Penaferrim
Moorish Castle

Lisbon

The Medieval Borough of Alfama
Lisbon's Borough of Belém
Tower of Belém
Castelo de São Jorge
National Coaches Museum
Monastery of the Jerónimos (Hieronymite Monks, built in 1502)
Panoramic: Commerce Square, Downtown, Rossio Square, Avenue da Liberdade and Campo Grande

Session 1 [CLOUD COMPUTING]

Session Chair: Mathias Gerstner

20015 Towards Global Multi-Cloud Strategies: Insights into AWS and Alibaba Cloud Synergy

Christoph Neumann, Ostbayerische Technische Hochschule Amberg-Weiden, Germany

Martin Zizler, OTH Amberg-Weiden, Germany

20020 A Multi-Resource Power Modeling Framework for Energy-Aware Cloud Simulation in CloudSim

Raju Shrestha, Oslo Metropolitan University (OsloMet), Norway

20036 The Final Frontier of Orchestration: Bringing Kubernetes to On-Field and Embedded Devices Beyond Cloud-to-Edge Continuum

Jorge Carola, Siemens SA, Portugal

20045 A Cloud-Native Architecture for Human-in-Control LLM-Assisted OpenSearch in Investigative Settings

Malte Prieß, HAW Kiel - Faculty of Computer Science and Electrical Engineering, Germany

Benjamin Puhani, AI Research Unit of the State Police of Schleswig-Holstein, Germany

Session 2 [CROSS-SEC I]

Session Chair: Steve Chan

85049 A Note on the Post-Quantum Security of Identity-Based Encryption on Isogenous Pairing Groups

Malte Andersch, Freie Universität Berlin, Germany

85063 A Multi Method Framework for GNSS Anomaly Detection in Vehicular Systems Using NMEA Data

Mathias Gerstner, Ostbayerische Technische Hochschule Regensburg, Deutschland

85065 CVEs with a CVSS Score Greater than or Equal to 9

Lena Sinterhauf, NetUSE AG, Germany

85089 Performance Analysis of a Container-Based Security Approach in 5G Networks

Musab Mustafa Wahbi MohamedAli, University of Genoa, Italy

Session 3 [CROSS-SEC II]

Session Chair: Lena Sinterhauf

85068 GNSS Spoofing Simulator

Tobias Reichel, ZITiS, Deutschland

85070 Introducing the Cyber-Physical Data Flow Diagram to Improve Threat Modelling of Internet of Things Devices

Andreas Abmuth, Kiel University of Applied Sciences, Germany

85127 An Analysis of Malware Threats Facing the IoT: A Taxonomy of IoT Malware

Ian Ferguson, Abertay University, United Kingdom

85119 Towards Unsupervised Adversarial Document Detection in Retrieval Augmented Generation Systems

Patrick Levi, OTH Amberg-Weiden, Germany

Session 4 [CROSS-SEC III, SERV COMP, CLOUD COMP]

Session Chair: Philipp Fuxen

85074 SEPP 4.0 - Evaluation of Hands-On IoT-Security Exercises

Sebastian Fischer, OTH Regensburg, Germany

85094 End-to-End Security of Smart Meter Infrastructure–Based Control Chains: A STRIDE Analysis of Residual Risks Beyond the Smart Meter Gateway

Sascha Kaven, HAW Hamburg, Germany

85097 From Network Traffic to Data Space: Design, Validation, and Multi-Model Benchmarking

Christoph Moser, Ostbayerische Technische Hochschule Regensburg, Germany

10003 Towards Agentic Orchestration for Business Processes in the Insurance Industry

Christin Schulze, Hochschule Hannover - University of Applied Sciences & Arts, Germany

20043 Why Digital Sovereignty is More than Switching the Cloud Provider: A Practical Migration Experiment

Wolfgang Forstmeier, Siemens Technology and Services Private Limited, Germany

Session 5 [CROSS-SEC IV]

Session Chair: Sascha Kaven

85101 An Agentic GraphRAG Architecture for Organization-Aware Cyber Threat Intelligence

Philipp Fuxen, OTH Regensburg, Germany

85104 An Analysis of Attack Vectors Against FIDO2 Authentication

Alexander Berladskey, Kiel University of Applied Sciences, Germany

85107 Secure-by-Design Prototyping of an IoT Access-Control System

Ruben Jubeh, OTH Regensburg, Germany

85115 Agentic AI Systems as a New Class of Cybersecurity Actors: Translating Human Behavioral Concepts to Artificial Intelligence

Klaas Ole Kürtz, Kiel University of Applied Sciences, Germany

Session 6 [CROSS-SEC V, FUTURE and CLOUD COMP]

Session Chair: Sebastian Fischer

85112 Closing the Temporal Gap: A Deterministic Simulation Framework for Physics-Aware Automotive Intrusion Detection

Liron Ahmeti, OTH Regensburg, Germany

85132 A Smart-Contract–Based Validation Framework for Secure and Auditable Federated Learning in Dementia

Elif Calik, ADAPT Research Centre, School of Computer Science, University of Galway, Ireland

30018 Prototype Pseudo-Metacognition Module for AI Reasoning

Steve Chan, Decision Engineering Analysis Laboratory, USA

20048 Power-Aware Container Placement Mechanism for CaaS Systems

Abdullah Alwabel, PSAU, Saudi Arabia

Session 7 [GenAI4CLOUD/CLOUD COMPUTING]: Generative AI for Cloud Computing

Session Chair: Kunal Rao

Introduction

Kunal Rao, NEC Laboratories America, Inc., USA

28002 Agentic Placement of Microservices on the Computing Continuum

Kunal Rao, NEC Laboratories America, Inc., USA

28004 LLM Fine-Tuning with aiDAPTIV+: A Viable Training Strategy on Resource-Constrained Compute Platforms

Abhishek Patel, CDAC PUNE, India

28008 Stress-Testing the Robustness of LLM-Based Causal Inference

Ankitkumar Patel, IntelliQuest Ventures, USA

Open Discussion and Closing Remarks

Moderator: Kunal Rao

Session 8 [Hyper-CC/CLOUD COMPUTING]: Hyper-Distributed Systems and Applications for the Computing Continuum

Session Chair: Herodotos Herodotou

Introduction

Herodotos Herodotou, Cyprus University of Technology, Cyprus

28001 A Modular Kubernetes Workload Simulator for Evaluating Learning-Based Scheduling Policies

Marios Touloupou, Cyprus University of Technology, Cyprus

28003 Platform-Agnostic Resource and Application Profiles for Heterogeneous Cloud--Edge--Device Orchestration

Nektarios Deligiannakis, Department of Informatics and Telecommunications National and Kapodistrian University of Athens, Greece

28006 Hypertool: A Resource Abstraction and Lifecycle Management Framework for Heterogeneous Cloud Environments

Michalis Loukeris, Department of Informatics and Telecommunications National and Kapodistrian University of Athens, Greece

Open Discussion and Closing Remarks

Moderator: Herodotos Herodotou

Session 9 [PATTERNS, AIVR]

Session Chair: Rainer Wasinger

70006 A Methodology for Investigating AI Patterns Prevalence in Software Repositories

Srinath Perera Liyanapathirannahelage, WSO2, Sri Lanka

95046 Human-Centered Innovation in Water Resources Management Education: A Co-Creation Approach to Developing VR Learning Experiences

Stella Kanatouri, German Aerospace Center (DLR), Institute of Data Science, Germany

Session 10 [MOBILITY, SPWID]

Session Chair: Stella Kanatouri

70019 Evaluation of Testing Tools for Assessing the Accessibility of Android Apps in Accordance with EN 301 549

Rainer Wasinger, University of Applied Sciences Zwickau, Germany

80011 Reframing Brain-Computer Interfaces as plug-and-play assistive peripherals for existing Assistive Technologies

Alessandro Leone, National Research Council of Italy, Italy

Valentina Caracci, Sapienza University of Rome, Italy

Session 11 [COGNITIVE I]

Session Chair: Abiodun Adebayo

40006 A Hybrid Cognitive Architecture for Multimodal and Multilingual Human–Machine Interaction

Nana Schlage, Hochschule Niederrhein University of Applied Sciences, Germany

40035 A Reference Architecture for Pro-adaptive Cognitive Assistive Technology

Thomas Nitsche, Hochschule Niederrhein, Germany

40040 Towards Individualised Reading Support for Attention-Deficit/Hyperactivity Disorder (ADHD): User-centred Development of an Adaptive Eye-Tracking-Based Reading Assistance System

Kyra Kannen, Rhine-Waal University of Applied Sciences, North Rhine-Westphalia, Germany

Session 12 [COGNITIVE II]

Session Chair: Kyra Kannen

40047 A Metacognitive Upstream Routing Framework for Accuracy Preservation and Computational Efficiency in Artificial Intelligence Systems

Naavya Shetty, University of Illinois Urbana-Champaign, USA

40051 A Comparative Evaluation of RAG and GraphRAG for Open-Ended Question Answering

Abiodun Adebayo, Ulster University, UK

40011 US Regulatory Perspectives on Brain Computer Interface Devices

Carlos Pena, Charlie Company, USA

40057 Amica: Accessible Multimodal Interaction Conversational Assistant for School Children with Intellectual Disabilities

André Frank Krause, Rhine-Waal University of Applied Sciences, Germany

Session 13 [ICIMP, SMART]

Session Chair: André Frank Krause

30003 STSMOTE: A Controllable Data Augmentation Method for Few-Shot Zero-Day Attack Detection in Network Intrusion Detection Systems

Haruto Ishii, The University of Tokyo, Japan

40058 The Impact of Logistics Systems' Digital Transformation on the Development of Healthy Cities

Arkadiusz Szmal, Silesian University of Technology, Poland
Edyta Przybylska, Silesian University of Technology, Poland
Katarzyna Dohn, Silesian University of Technology, Poland
Marzena Kramarz, Silesian University of Technology, Poland

40060 Understanding the Role of Scaling in Smart City Strategies: Evidence from German Municipalities
Wintana Tsigeyohanes Habte, Justus Liebig University Giessen, Germany

Session 14 [SMART, SPWID]

Session Chair: Naavya Shetty

40065 Smart Mobility as a Structuring Lever of Smart Cities: Technologies, Governance, and Sustainability Challenges

Nouhaila Belmajdoub, IAV Hassan II, Morocco

40069 A New Approach to Urban Planning Based on Daily Life Rhythms Using Human Mobility Data

Taichi Amaya, The University of Tokyo, Japan

80007 Immersive Multisensory Module and Experience for Relax and Self-Improvement: The IMMERSI Project

Andrea Caroppo, National Research Council of Italy - Institute for Microelectronics and Microsystems, Italy

Session 15 [BIMS/BUSTECH]: Modern BI Architectures for Enterprise Performance Management and Company Steering

Session Chair: Maik Drozdzyński

Introduction

Maik Drozdzyński, IU International University of Applied Sciences, Germany

98001 Concept of a Business Intelligence Architecture for Digital Shopfloor Management

Maik Drozdzyński, IU International University of Applied Sciences, Germany

98002 Self-Service Business Intelligence Adoption and Value Realization: A Mixed-Methods Analysis of Drivers, Barriers, and Governance Implications

Alexander Lawall, IU International University of Applied Science, Deutschland

98003 What Drives Business Intelligence Satisfaction and Expansion? An Empirical Study of Swiss Companies

Viktoriiia Apalkova, School of Management Fribourg, HES-SO University of Applied Sciences and Arts Western Switzerland, Switzerland

Open Discussions and Concluding Remarks

Moderator: Maik Drozdzyński

Session 16 [CPAI/COGNITIVE, SMART]: Cognitive and Psychological Impacts of AI Adoption

Session Chair: Kristina Schaaff

Introduction

Kristina Schaaff, IU International University of Applied Sciences, Germany

48001 The Influence of Extraversion and Neuroticism on Technology Acceptance and Cognitive Dissonance in LLM Usage

Kristina Schaaff, IU International University of Applied Sciences, Germany

48002 AI Use in the Workplace: Correlational Evidence on Motivation, Autonomy, Job Security, and AI-Related Threat

Marc-André Heidelmann, IU International University of Applied Sciences, Germany

40073 Development of Urban Dashboard for Smart District Planning and Management

Jun Okada, the University of Tokyo, Japan

Open Discussions and Concluding Remarks

Moderator: Kristina Schaaff

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