

# 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 2<sup>nd</sup>, 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	<b>Registration starts</b> The registration desk is in front of the conference rooms. It is open during the entire conference.
14:15 - 14:30	<b>Opening session</b>
14:30 - 15:30	<b>Keynote Speech</b> <b>Theme:</b> AI Reasoning - Current Challenges & Future Opportunities <b>Speaker</b> Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA <b>Chair</b> Carlos Peña
15:30 - 16:00	<b>Coffee Break</b>
16:00 - 17:00	<b>Tutorial I</b> <b>Theme:</b> Designing Clinical Studies and Navigating the FDA Approval Process in the USA <b>Lecturer</b> Carlos Peña, PhD, MS, Chief Regulatory Officer and Chief Quality Officer, Jacobs Institute - Buffalo, USA <b>Chair</b> Petre Dini
17:00 - 17:15	<b>Coffee</b>
17:15 - 18:15	<b>Tutorial II</b> <b>Theme:</b> Current State of LLM/SLM-based Code Generation and Future Directions <b>Lecturer</b>

	Srinath Perera, Ph.D., Chief Architect, WSO2 Inc., Santa Clara, USA <b>Chair</b> Steve Chan
18:30 - 20:00	<b>Welcome Cocktail</b>

## Monday, April 20

09:00 - 10:00	<b>Keynote Speech</b> Cybersecurity – Current Threats and Future Challenges <b>Speaker</b> Prof. Dr. Andreas Aßmuth, Kiel University of Applied Sciences, Germany <b>Chair</b> George R S Weir	
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:15	<b>Session 1 [CLOUD COMPUTING]</b>	<b>Session 9 [PATTERNS, AIVR]</b>
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	<b>Session 2 [CROSS-SEC I]</b>	<b>Session 10 [MOBILITY, SPWID]</b>
15:45 - 16:15	<b>Coffee Break</b>	
16:15 - 17:45	<b>Session 3 [CROSS-SEC II]</b>	<b>Session 11 [COGNITIVE I]</b>
17:45 - 18:00	<b>Coffee</b>	
18:00 - 19:30	<b>Panel #1</b> <b>Theme:</b> AI and Cybersecurity: Attacker's Best Friend or Defender's Last Hope? <b>Moderator</b> Prof. Dr. Andreas Aßmuth, Kiel University of Applied Sciences, Germany <b>Panelists</b> 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	<b>Keynote Speech</b> Internet of Things - Toward a Better-connected World? <b>Speaker</b> Lect. & Adj. Prof. Dr. George R S Weir, University of Strathclyde, Glasgow, UK <b>Chair</b> Andreas Aßmuth	
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:15	<b>Session 4 [CROSS-SEC III, SERV COMP]</b>	<b>Session 12 [COGNITIVE II]</b>
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	<b>Session 5 [CROSS-SEC IV]</b>	<b>Session 13 [ICIMP, SMART]</b>
15:45 - 16:15	<b>Coffee Break</b>	
16:15 - 17:45	<b>Session 6 [CROSS-SEC V, FUTURE COMPUTING]</b>	<b>Session 14 [SMART, SPWID]</b>
17:45 - 18:00	<b>Coffee</b>	

18:00 - 19:30	<p><b>Panel #2</b>  <b>Theme:</b> Is the Cloud Still Just Infrastructure? Rethinking Data Processing in Intelligent Systems  <b>Moderator</b>  Prof. Dr. Christoph Neumann, Ostbayerische Technische Hochschule Amberg-Weiden, Germany  <b>Panelists</b>  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>
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**Wednesday, April 22**

09:00 - 10:00	<p><b>Keynote Speech</b>  Software Engineering in AI/LLM Era  <b>Speaker</b>  Kunal Rao, NEC Laboratories America/Integrated Systems Department - Princeton, USA  <b>Chair</b>  Eugen Borcoci</p>	
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:15	<b>Session 7 [GenAI4CLOUD]</b>	<b>Session 15 [BIMS/BUSTECH]</b>
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	<b>Session 8 [Hyper-CC]</b>	<b>Session 16 [CPAI/COGNITIVE, SMART]</b>
15:45 - 16:15	<b>Coffee Break</b>	
16:15 - 17:45	<p><b>Panel #3</b>  <b>Theme:</b> Challenges in Human-Machine Reasoning and Co-Existence  <b>Moderator</b>  Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA  <b>Panelists</b>  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	<b>Coffee</b>	
18:00 - 18:45	<p><b>Open Discussion I</b>  <b>Theme:</b> The Danger of Synthetic Use Cases  <b>Moderators</b>  Prof. Dr. Maik Drozdzyński, IU International University of Applied Sciences, Germany  Dsc Phd Eng., Assoc. Prof. Katarzyna Dohn, Silesian University of Technology, Poland  katarzyna.dohn@polsl.pl  Prof. Dr. Petre Dini, IARIA, USA/EU</p>	
19:00 - 23:00	<b>Conference Dinner (Mercure Hotel, same floor)</b>	

**Thursday, April 23**

09:00 - 10:15	<p align="center"><b>Panel #4</b>  <b>Theme:</b> Complex Systems and Protection of Critical Infrastructure  <b>Moderator</b>  Prof. Dr. Malte Prieß, HAW Kiel - Faculty of Computer Science and Electrical Engineering, Germany  <b>Panelists</b>  Lect. &amp; Adj. Prof. Dr. George R S Weir, University of Strathclyde, Glasgow, UK  Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA</p>
10:15 - 10:30	<b>Coffee Break</b>
10:30 - 11:30	<p align="center"><b>Keynote Speech</b>  AI-based Path Planning for Unmanned Aerial Vehicles  <b>Speaker</b>  Prof. Dr. Ing. Eugen Borcoci, Universitatea Națională de Știință și Tehnologie Politehnica Bucuresti, (UNSTPB), Romania  <b>Chair</b>  Thomas Nitsche</p>
11:30 - 11:45	<b>Coffee</b>
11:45 - 12:30	<p align="center"><b>Open Discussion</b>  <b>Theme:</b> Useful Conversational Chatbots or Social Junk Food?  <b>Moderators </b>  CTO Dr. Jayfus T. Doswell, Juxtopia Group, Inc., USA  Prof. Dr.-Ing. Thomas Nitsche, Hochschule Niederrhein, Germany  Prof. Dr. Petre Dini, IARIA, USA/EU</p>
12:30 - 12:45	<b>Coffee Break</b>
12:45 - 14:00	<b>Session 17 [COGNITIVE/BRAINCOMAUG]</b>
14:00 - 14:30	<b>Farewell &amp; Closing Session &amp; Coffee</b>

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

**Sintra**

Sintra - National Palace

Pena Palace - São Pedro de Penaferrim

**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

**Session 1 [CLOUD COMPUTING]**

Session Chair: Mathias Gerstner

2015 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 Aßmuth, 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]**

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

### **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

### **Session 6 [CROSS-SEC V, FUTURE COMPUTING]**

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

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

Session Chair: Kunal Rao

Papers: TBD

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

Session Chair: Herodotos Herodotou

Papers: TBD

### **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

Papers; TBD

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

Session Chair: Kristina Schaaff

Papers: TBD

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40073 Development of Urban Dashboard for Smart District Planning and Management  
Jun Okada, the University of Tokyo, Japan

**Session 17 [COGNITIVE/BRAINCOMAUG]: Brain Computer Interface for AI Augmented Human Cognition**

Chair: Jayfus T. Doswell

**Session 18 [Q]**

Chair: TBD