

Onsite Activities (*Preliminary*) Program

NexTech 2024 & SoftNet 2024

Conference Hotel
Conference Venue Location
Conference will be mixed online and on location at

NOVOTEL Venezia Mestre Castellana
Via Ceccherini 21
30174 Venezia Mestre
Italy

Updated as of September 24, 2024

The program will be continuously updated.

NexTech 2024: <https://www.aria.org/conferences2024/ProgramUBICOMM24.html>

SoftNet 2024: <https://www.aria.org/conferences2024/ProgramICSEA24.html>

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

| Time slots | Activity |
|------------------------|--|
| Sunday, Sept 29 | |
| 12:00 pm | Registration starts The registration desk is located in front of the conference rooms. The reception is operating during the entire conference. |
| 13:30 - 13:45 | Opening session |
| 13:45 - 14:45 | Tutorial #1 Theme: Serious Games for CyberSecurity Lecturer Dr. Tiago Gasiba, Siemens AG, Munich, Bavaria, Germany Chair Timothy Haas |
| 14:45 - 15:00 | Coffee Break |
| 15:00 - 16:00 | Tutorial #2 Theme: Adapting Cybersecurity Practice to Reduce Wildlife Cybercrime Lecturer Prof. Dr. Timothy Haas, University of Wisconsin-Milwaukee, USA Chair Tiago Gasiba |
| 16:00 - 16:15 | Coffee |
| 16:15 - 18:00 | Session 1 [CYBER, ADVCOMP/HAAP] |
| 18:00 - 18:30 | Social Networking |
| 18:30 - 20:00 | Welcome Cocktail |

Monday, Sept 30

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| 09:00 - 10:00 | Keynote Speech Theme: Blockchain in the Smart City Speaker Prof. Dr. Lasse Berntzen, University of South-Eastern Norway (USN), Norway Chair Joshua Sipper |
| 10:00 - 10:15 | Coffee |
| 10:15 - 11:45 | Session 2 [SIMUL, VALID, CENTRIC] |
| 11:45 - 12:00 | Coffee break |
| 12:00 - 13:30 | Session 3 [CYBER, AISyS, ICSEA, CENTRIC] |
| 13:30 - 15:00 | Lunch on your own |
| 15:00 - 16:30 | Session 4 [GLOBAL HEALTH, SIMUL] |
| 16:30 - 16:45 | Coffee Break |
| 16:45 - 18:15 | Session 5 [SIMUL, INNOV, UBICOMM] |
| 18:15 - 18:30 | Coffee |
| 18:30 - 20:15 | Panel #1 Theme: Cyber Security Now - Dealing with Autonomous Systems Moderator Prof. Dr. Erik Buchmann, Leipzig University, Germany Panelists Prof. Dr. Marko Jäntti, University of Eastern Finland, Finland Prof. Dr. Lasse Berntzen, University of South-Eastern Norway (USN), Norway Dr. Tiago Gasiba, Siemens AG, Munich, Bavaria, Germany Prof. Dr. Joshua Sipper, Air University, Air Command and Staff College, USA |

Tuesday, Oct 1

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| 09:00 - 10:00 | Keynote Speech Theme: AI and the Future of User-Centered Design: Insights from UX Research and Evaluation Speaker Prof. Dr. Stephan Böhm, RheinMain University of Applied Sciences, Germany Chair Lasse Berntzen |
| 10:00 - 10:15 | Coffee |
| 10:15 - 11:45 | Session 6 [SIMUL, VALID, ICSEA] |
| 11:45 - 12:00 | Coffee break |
| 12:00 - 13:30 | Session 7 [AISyS, DATA ANALYTICS] |
| 13:30 - 15:00 | Lunch on your own |
| 15:00 - 16:30 | Session 8 [ICSEA, DATA ANALYTICS, CYBER] |
| 16:30 - 16:45 | Coffee Break |
| 16:45 - 18:15 | Session 9 [SEMAPRO, ICSEA, AMBIENT] |
| 18:15 - 18:30 | Coffee |
| 18:30 - 20:15 | Panel #2 Theme: Software-Now - Developing, Simulation, and Validation Challenges Moderator Prof. Dr. Hans-Werner Sehring, NORDAKADEMIE gAG, Germany |

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| | <p style="text-align: center;">Panelists Prof. Dr. Simona Vasilache, University of Tsukuba, Japan Prof. Dr. Radek Kočí, Brno University of Technology, Czech Republic Prof. Dr. Luigi Lavazza, Università degli Studi dell'Insubria, Italy Prof. Dr. Carlo Simon, Hochschule Worms, Deutschland Jos van Rooijen, Huis voor Software Kwaliteit, Nederland Dr. Hayk Aslanyan, CAST, RAU, Armenia</p> |
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Wednesday, Oct 2

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| 09:00 - 10:00 | <p style="text-align: center;">Keynote Speech Theme: From Pixels to Patterns and Apparels: AI Shaping the Future of Fashion Speaker Prof. Dr. Christelle Scharff, Pace University, USA Chair Simona Vasilache</p> |
| 10:00 - 10:15 | Coffee |
| 10:15 - 11:45 | Session 10 [CENTRIC, EMERGING] |
| 11:45 - 12:00 | Coffee break |
| 12:00 - 13:30 | Session 11 [AISyS/AI-HPC, UBICOMM] |
| 13:30 - 15:00 | Lunch on your own |
| 15:00 - 16:30 | <p style="text-align: center;">Panel #3 Theme: AI-driven and Human-centric - A (conflicting) Cohabitation Dilemma Moderator Prof. Dr. Stephan Böhm, RheinMain University of Applied Sciences, Germany Panelists Prof. Dr. Christelle Scharff, Pace University, USA Dr. Antoni Martínez-Ballesté, Universitat Rovira i Virgili, Spain Prof. Dr. Jirawat Damriant, Thammasat University, Thailand Prof. Dr. Petre Dini, IARIA, USA/EU</p> |
| 16:30 - 16:45 | Coffee Break |
| 16:45 - 18:15 | Session 12 [ADVCOMP/ASDIE] |
| 18:15 - 18:30 | Coffee |
| 18:30 - 20:15 | <p style="text-align: center;">Panel #4 Theme: Artificial Intelligence as Game Changer - A Way to Sustainable Service Solutions Moderator Prof. Dr. Andreas Rausch, Technische Universität Clausthal, Germany Panelists Dr. Tiago Gasiba, Siemens AG, Munich, Bavaria, Germany Dominique Briechle, Technische Universität Clausthal, Germany Dipl. Ing. Peter Darveau, Centre for Advanced Computing - University of Ottawa, Canada Sr. Lect. Eric Innocenti, University of Corsica Pasquale Paoli, Corte, France</p> |
| 20:30 - 23:30 | Conference Gala Dinner |

Thursday, Oct 3

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| 09:00 - 10:00 | Keynote Speech |
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| | <p>Theme: A Methodology for Autonomic Monitoring Collection and Forensic Analysis of Cloud Systems and Services</p> <p>Speaker Dr. Juan-Carlos Bennett, Naval Information Warfare Center (NIWC) Pacific, USA</p> <p>Chair Eric Innocenti</p> |
| 10:00 - 10:15 | Coffee |
| 10:15 - 11:45 | <p>Panel #5</p> <p>Theme Future Scientific Challenges - Digital Health and User Well-being</p> <p>Moderator Prof. Dr. Joshua Chukwuere, North-West University, South Africa, South Africa</p> <p>Panelists Prof. Dr. Erik Buchmann, Leipzig University, Germany Dr. Juan-Carlos Bennett, Naval Information Warfare Center (NIWC) Pacific, USA Prof. Dr. Yasutaka Uchida, Teikyo University of Science, Japan (日本) Norbert Doraczyński, Ministry of Health of the Republic of Poland, Poland Maciej Buńkowski, Ministry of Health of the Republic of Poland, Poland Prof. Dr. Petre Dini, IARIA, USA/EU</p> |
| 11:45 - 12:00 | Coffee break |
| 12:00 - 13:30 | Session 13 [GLOBAL HEALTH, SOTICS, SIMUL] |
| 13:30 - 14:30 | Lunch on your own |
| 14:30 - 16:00 | Session 14 [AISyS, GLOBAL HEALTH] |
| 16:00 - 16:15 | Coffee Break |
| 16:15 - 17:45 | Session 15 [ADVCOMP, SIMUL, ICSEA] |
| 17:45 - 18:15 | Coffee and Closing Session |

Recommended tourist objectives to be visited on your own:

Note: There is a bus from near-by Novotel Venezia-Mestre Castellana to Piazzale Roma (twice/hour)

An updated public transport timetable is provided by the hotel.

From: Piazzale Roma inside Venice City

(i) via Public Transportation

Grand Canal by public Vaporetto Lines

(ii) by Walking (narrow streets)

Scuola Grande di San Rocco

Frari Church

Rialto Bridge

Food Market of Rialto

Former Financial District of Venice

Fenice Opera House

Church of San Marco

Dodges' Palace

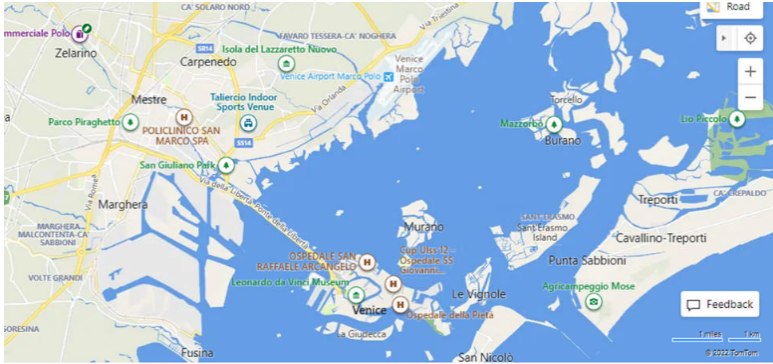
San Marco Belltower

San Marco Piazza

(iii) Recommended

From San Marco Plaza – three islands: Murano, Burano, and Torcello.

<https://www.venice-museum.com/murano-burano-torcello-islands-venice.php>



Session 1 [CYBER, ADVCOMP/HAAS] Sun 16:15

Chairs: Tiago Gasiba, Biagio Peccerillo

80038 CAN Message Collision Avoidance Filter for In-Vehicle Networks

Uma Vinayak Kulkarni, Hamburg University of Technology (TUHH), Germany

Introduction on HAAS (Hardware Accelerators and Accelerated Programming)

Biagio Peccerillo, University of Siena, Italy

28003 MORUS-PRNG: a Hardware Accelerator Based on the MORUS Cipher and the IXIAM Framework

Alessio Medaglini, University of Siena, Italy

28005 Accelerating Differential Privacy Based Federated Learning Systems

Mirco Mannino, University of Siena, Italy

Discussion + Closing remarks on HAAS | *Moderator: Biagio Peccerillo*

Session 2 [SIMUL, VALID, CENTRIC] Mon 10:15am

Chair: Uma Vinayak Kulkarni

50025 COSMOS Simulator: A Software Tool for Construction-Process Modelling and Simulation

Jirawat Damrianant, Thammasat University, Thailand

40010 Exploring and Enhancing Unit Test Generation with EvoSuite: Practical Challenges and Solutions

Josep Silva Galiana, Universitat Politècnica de València, Spain

30004 Enhancing UX Research Activities Using GenAI – Potential Applications and Challenges

Stefan Graser, RheinMain University of Applied Sciences, Germany

Session 3 [AISys, ICSEA, CENTRIC] Mon 12:00pm

Chair: Michael Bidollahkhani

80011 Artificial Intelligence and Semiotics: Using Semiotic Learning to Bolster AI

Joshua Sipper, Air University, Air Command and Staff College, USA

80014 ChatSEC: Spicing up Vulnerability Scans with AI for Heterogeneous University IT

Erik Buchmann, Leipzig University, Germany

10032 Engineering Robotic Process Automation (RPA)

Marko Jäntti, University of Eastern Finland, Finland

30009 Construction of the UXAR-CT – a UX Questionnaire for Augmented Reality in Corporate Training

Stefan Graser, RheinMain University of Applied Sciences, Germany

Session 4 [GLOBAL HEALTH, SIMUL] Mon 15:00

Chair: Erik Buchmann

70016 Constructing a Value Assessment Framework for Early Medtech Innovation Projects at Proof-of-Concept Centers in China

Fuping Pai, Peking Union Medical College, China

70024 Evaluation of Segmentation Schemes for Noisy and Denoised Dental Cone Beam Computed Tomography (CBCT) Images

Simin Mirzaei, The University of British Columbia, Canada

70044 A Grounded Theory Study on Developing Competency Models for Technical Managers in Transformation of Medical R&D Findings

Qiufan Sun, Peking Union Medical College, China

50038 Metasystem for Modeling Emergency Departments

Francisco Mesas Cervilla, Universitat Autònoma de Barcelona, Spain

Session 5 [SIMUL, INNOV, UBICOMM] Mon 16:45

Chair: Simin Mirzaei

50007 Weld Data Collecting for Use in Welding Simulation and Digital Twins

Martin Gredehall, Blekinge Institute of Technology, Sweden

70020 Ambiguity and Vagueness of Fuzzy Number Data and Fuzzy Measure Weight for AHP

Shin-ichi Ohnishi, Hokkai-Gakuen University, Japan

70005 Reconfigurable Intelligent Surface Assisted MIMO SWIPT System

Fang-Biau Ueng, National Chung Hsing University, Taiwan

10005 Leveraging Large Language Models for Enhanced Personalized User Experience in Smart Homes

Jordan Rey-Jouanchicot, Orange, France

Session 6 [SIMUL, VALID, ICSEA] Tue 10:15am

Chair: Christelle Scharff

50045 Predictive AI To Feed Simulation

Carlo Simon, Hochschule Worms - University of Applied Sciences, Germany

40002 Industrial report: The Future of Software Testing Brainstorm Session

Jos van Rooyen, Huis voor Software Kwaliteit, The Netherlands

10050 The Hidden Hazards of Job Hunting: Third-Party Services on Job Search Websites

Henna Lohi, University of Turku, Finland

40008 Precise Code Fragment Clone Detection
Hayk Aslanyan, CAST, RAU, Armenia

Session 7 [AISyS, DATA ANALYTICS] Tue 12:00pm

Chair: Henna Lohi

80009 AI Systems Adoption of Unified Research Data Management using oneAPI framework
Peter Darveau, University of Ottawa, Canada

80021 Assessing Privacy Policies with AI: Ethical, Legal, and Technical Challenges
Erik Buchmann, Leipzig University, Germany

80027 Towards AI-Generated African Textile Patterns with StyleGAN and Stable Diffusion
Christelle Scharff, Pace University, USA

60021 Ontology-based Integration of Occupational Health Data: Methods and Case Studies
Cassandra Barbey, Department of Pollutant Metrology, INRS, France

Session 8 [ICSEA, DATA ANALYTICS. CYBER] Tue 15:00

Chair: Peter Darveau

10041 Working Together: Class Activities as Cross-Cultural Bridges in Software Engineering Teaching
Simona Vasilache, University of Tsukuba, Japan

10053 On the Object-Oriented Petri Nets Model Transformation into Java Programming Language
Radek Koci, Brno University of Technology, Czech Republic

10029 A Comparison of Closed-Source and Open-Source Code Static Measures
Luigi Lavazza, Università degli Studi dell'Insubria, Italy

80027 Poisoning Attack Data Detection with Internal Coefficient Displacement for Machine Learning Based NIDS
Hajime Shimada, Nagoya University, Japan

Session 9 [SEMAMPRO, ICSEA, AMBIENT, CENTRIC] Tue 16:45

Chair: Radek Koci

30002 A semantic data model of Harmonized Survey on Households Living Standards
Marc Mfoutou Moukala, Marien Ngouabi University, Congo

10048 Building Model-Based Code Generators for Lower Development Costs and Higher Reuse
Hans-Werner Sehring, NORDAKADEMIE, Germany

40005 Basic Investigation for Sign Language Sentence Interpretation Using Acceleration Sensor Information
Hiroshi Tanaka, Kanagawa Institute of Technology, Japan

Session 10 [CENTRIC, EMERGING, AMBIENT] Wed 10:15am

Chair: Hans-Werner Sehring

30023 The Balance Between Surveillance and Privacy - Adjusting to a Changing Threat Landscape

Lasse Berntzen, University of South-Eastern Norway, Norway

40008 Integration of Large Language Models into Control Systems for Shared Appliances
Karl Löwenmark, Luleå University of Technology, Sweden

30013 User Experience of Augmented Reality: A Comprehensive Systematic Literature Review
Stephan Böhm, RheinMain University of Applied Sciences, Germany

50004 Network Intrusion Detection Using Machine Learning Processes
Nader Mir, San Jose State University in California, USA

Session 11 [AISys/AI-HPC, UBICOMM] Wed 12:00pm

Chair: Rishabh Saxena, Dennis Hoppe

Introduction

Rishabh Saxena, Dennis Hoppe

88002 An Advanced Surrogate Model Approach for Enhancing Fluid Dynamics Simulations
Shubham Kavane, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

88003 AI for Global Challenges: Case Studies in Urban Solar Exposure and Wildfire Management
Giorgos Filandrianos, National Technical University of Athens, Greece

88004 Cybersecurity Concerns of Artificial Intelligence Applications on High-Performance Computing Systems
Kerem Kayabay, HLRS, University of Stuttgart, Germany

10010 Real-Time Emotion Assessment System in Smart Classrooms using Wearable Bracelets
Antoni Martínez-Ballesté, Universitat Rovira i Virgili, Spain

Discussion + Closing remarks | Moderators: Rishabh Saxena

Session 12 [ADVCOMP/ASDIE] Wed 16:45

Session Chairs: Andreas Rausch, Christoph Knieke, Dominique Briechle

Introduction

*Andreas Rausch, Christoph Knieke, Dominique Briechle,
Technische Universität Clausthal, Germany*

28001 Application of a Maneuver-based Decision-making Approach for an Autonomous System Using a Learning Approach
Xin Xing, Ostfalia - University of Applied Sciences, Germany

28002 You've Got a Plan? A Domain Modelling Approach for Collaborative Product Disassembly Planning with PDDL
Dominique Briechle, Technische Universität Clausthal, Germany

28004 Automating Benchmarking Process for Multimodal Large Language Models (MLLMs) in the Context of Waste Disposal
Sundus Hammoud, Technische Universität Clausthal, Germany

28006 Integrative Development and Evaluation of V2X Communication Architectures to Support Autonomous Driving Systems in 5G Campus Networks

Florian Pramme, Ostfalia - University of Applied Sciences, Germany

Discussion + Closing remarks | Moderators: Andreas Rausch, Christoph Knieke, Dominique Briechle

Session 13 [GLOBAL HEALTH, SOTICS, SIMUL] Thu 12:00pm

Chair: Sarah Frank

70035 Detecting Gait Changes with Front-Facing Video and MediaPipe: A Hemiplegic Patient Case Study
Yasutaka Uchida, Teikyo University of Science, Japan

60008 A Study into the Disruption of Social Media Platforms on Social Gatherings and Public Places
Joshua Chukwuere, North-West University, South Africa

50028 Reusable Building Blocks for Agent-Based Simulations: Towards a Methodology for Composing and Building ABM/LUCC
Eric Innocenti, University of Corsica Pasquale Paoli, Corte, France

Session 14 [AISyS, GLOBAL HEALTH] Thu 14:30

Chair: Joshua Chukwuere

80025 Combining Templates and Language Models for the Automatic Creation of Scientific Overviews
Sarah Frank, CERN, Switzerland & Graz University of Technology, Austria

80034 Fuzzy Agent-based Simulation of Integrated Solutions for Task Allocation and Battery Charge Management for Fleets of Autonomous Industrial Vehicles
Alain-Jerome Fougères, ECAM Rennes, France

70028 Forecasting the Demand for High-cost Medical Equipment using Optimization Algorithms
Norbert Doraczyński, Ministry of Health of the Republic of Poland, Poland
Maciej Buńkowski, Ministry of Health of the Republic of Poland, Poland

Session 15 [ADVCOMP, SIMUL, ICSEA] Thu 16:45

Chair: Alain-Jerome Fougères

20013 Comparing Fault-tolerance in Kubernetes and Slurm in HPC Infrastructure
Mirac Aydin, Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen (GWDG), Germany
Michael Bidollahkhani, Georg-August-Universität Göttingen, Germany

20016 FEM Modeling for PCB Assembly Simulation
Ming-Hsiao Lee, National Center for High-performance Computing, NARL, Taiwan

10043 A Study of Third-Party Tracking on Religious Websites
Henna Lohi, University of Turku, Finland

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