

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 9, 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 [CENTRIC, CYBER]
18:00 - 18:30	Social Networking
18:30 - 20:00	Welcome Cocktail

Monday, Sept 30

09:00 - 10:00	Keynote Speech Theme: Blockchain and e-commerce 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]
11:45 - 12:00	Coffee break
12:00 - 13:30	Session 3 [CYBER, AISyS, ICSEA]
13:30 - 15:00	Lunch on your own
15:00 - 16:30	Session 4 [GLOBAL HEALTH]
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. Jirawat Damrianant, Thammasat University, Thailand 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

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]
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

	<p>Prof. Dr. Hans-Werner Sehring, NORDAKADEMIE gAG, Germany</p> <p>Panelists</p> <p>Prof. Dr. Simona Vasilache, University of Tsukuba, Japan</p> <p>Prof. Dr. Radek Kočí, Brno University of Technology, Czech Republic</p> <p>Prof. Dr. Luigi Lavazza, Università degli Studi dell'Insubria, Italy</p> <p>Prof. Dr. Carlo Simon, Hochschule Worms, Deutschland</p> <p>Jos van Rooijen, Huis voor Software Kwaliteit, Nederland</p> <p>Dr. Hayk Aslanyan, CAST, RAU, Armenia</p>
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Wednesday, Oct 2

09:00 - 10:00	<p>Keynote Speech</p> <p>Theme: Human-robot Teaming in Zero Visibility Conditions</p> <p>Speaker</p> <p>Prof. Dr. Aryya Gangopadhyay, University of Maryland Baltimore County (UMBC), USA</p> <p>Chair</p> <p>Simona Vasilache</p>
10:00 - 10:15	Coffee
10:15- 11:45	Session 10 [CENTRIC]
11:45 - 12:00	Coffee break
12:00 - 13:30	Session 11 [AISyS/AI-HPC]
13:30 - 15:00	Lunch on your own
15:00 - 16:30	<p>Panel #3</p> <p>Theme: AI-driven and Human-centric - A (conflicting) Cohabitation Dilemma</p> <p>Moderator</p> <p>Prof. Dr. Stephan Böhm, RheinMain University of Applied Sciences, Germany</p> <p>Panelists</p> <p>Prof. Dr. Christelle Scharff, Pace University, USA</p> <p>Dr. Antoni Martínez-Ballesté, Universitat Rovira i Virgili, Spain</p> <p>Prof. Dr. Jirawat Damrianant, Thammasat University, Thailand</p> <p>Prof. Dr. Nader Mir, San Jose State University in California, USA</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>Panel #4</p> <p>Theme: Artificial Intelligence as Game Changer - A Way to Sustainable Service Solutions</p> <p>Moderator</p> <p>Prof. Dr. Andreas Rausch, Technische Universität Clausthal, Germany</p> <p>Panelists</p> <p>Dr. Tiago Gasiba, Siemens AG, Munich, Bavaria, Germany</p> <p>Dominique Briechele, TU Clausthal, Germany</p> <p>Dr. Anne Coull, Flinders University, Sydney, Australia</p> <p>Dipl. Ing. Peter Darveau, Centre for Advanced Computing - University of Ottawa, Canada</p> <p>Sr. Lect. Eric Innocenti, University of Corsica Pasquale Paoli, Corte, France</p>
20:30 - 23:30	Conference Gala Dinner

Thursday, Oct 3

09:00 - 10:00	Keynote Speech Theme: A Methodology for Autonomic Monitoring Collection and Forensic Analysis of Cloud Systems and Services Speaker Dr. Juan-Carlos Bennett, Naval Information Warfare Center (NIWC) Pacific, USA Chair Nader Mir
10:00 - 10:15	Coffee
10:15- 11:45	Panel #5 Theme Future Scientific Challenges - Digital Health and User Well-being Moderator Prof. Dr. Joshua Chukwuere, North-West University, South Africa, South Africa 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)
11:45 - 12:00	Coffee break
12:00 - 13:30	Session 13 [GLOBAL HEALTH, UBICOMM, SOTICS, SIMUL]
13:30 - 14:30	Lunch on your own
14:30 - 16:00	Session 14 [EMERGING, AISyS]
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

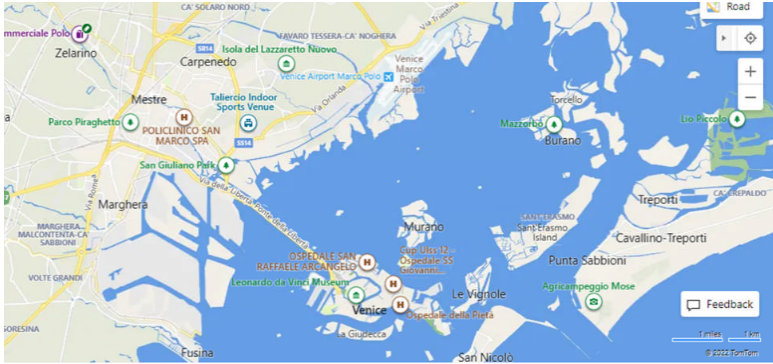
San Marco Belltower

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 [CENTRIC, CYBER] Sun 16:15

Chair: Tiago Gasiba

30023 The Balance Between Surveillance and Privacy - Adjusting to a Changing Threat Landscape
Lasse Berntzen, University of South-Eastern Norway, Norway

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

80038 CAN Message Collision Avoidance Filter For In-Vehicle Networks
Uma Vinayak Kulkarni, Hamburg University of Technology (TUHH), Germany

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

Chair: Uma Vinayak Kulkarni

50025 COSMOS Simulator: A Software Tool for Construction-Process Modelling and Simulation
Jirawat Dominant, Thammasat University, Thailand

40010 Exploring and Enhancing Unit Test Generation with EvoSuite: Practical Challenges and Solutions
Josep Silva Galiana, Universitat Politècnica de València, Spain

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

Chair: Josep Silva Galiana

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

80042 Prepare for the Worst, rather than Hope for the Best: Preparing to Recover from Major Cyber Incidents
Anne Coull, Flinders University, Australia

10032 Engineering Robotic Process Automation (RPA)
Marko Jäntti, University of Eastern Finland, Finland

Session 4 [GLOBAL HEALTH] 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, Peiking 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

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 personalised 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

Sampsa Rauti, University of Turku, Finland

40008 Precise Code Fragment Clone Detection

Hayk Aslanyan, CAST, RAU, Armenia

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

Chair: Sampsa Rauti

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] 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

60025 Evaluation of Property Filtering Algorithms using Tags for a Property Rental Recommendation Application
Brendan Tierney, Technological University Dublin, Ireland

Session 9 [SEMAPRO, ICSEA, AMBIENT] 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

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

Session 10 [CENTRIC] Wed 10:15am

Chair: Hans-Werner Sehring

30004 Enhancing UX Research Activities Using GenAI – Potential Applications and Challenges
Stefan Graser, RheinMain University of Applied Sciences, Germany

30009 Construction of the UXAR-CT – a UX Questionnaire for Augmented Reality in Corporate Training
Stefan Graser, RheinMain University of Applied Sciences, Germany

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

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

Chair: Dennis Hoppe
Contributions: To be announced

Session 12 [ADVCOMP/ASDIE] Wed 16:45

Chair: Andreas Rausch
Contributions: To be announced

Session 13 [GLOBAL HEALTH, UBICOMM, 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

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

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 [EMERGING, AISyS] Thu 14:30

Chair: Antoni Martínez-Ballesté

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

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

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

50038 Metasystem for Modeling Emergency Departments
Francisco Mesas Cervilla, Universitat Autònoma de Barcelona, Spain

10043 A Study of Third-Party Tracking on Religious Websites
Panu Puhtila, University of Turku, Finland