

On site Activities (*preliminary*) Program

Hotel Mercure Lisboa

Av Jose Malhoa 23

1099-051 Lisboa

Portugal

Updated as of Oct 15th, 2022

The program will be continuously updated

NetWare 2022: <https://www.iaria.org/conferences2022/ProgramSENSORDEVICES22.html>

SoftNet 2022: <https://www.iaria.org/conferences2022/ProgramICSEA22.html>

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

Conference rooms Time slots	A	B
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Monday, Oct 17th

11:00am	Registration starts The registration desk is located in front of the conference rooms Operating during the entire conference
13:00 - 14:00	Keynote Speech Applications of Visible Light Communication Prof. Dr. Manuela Vieira, Instituto Superior de Engenharia de Lisboa (ISEL) and CTS-UNINOVA, Portugal Chair: Prof. Dr. Pascal Lorenz
14:00 - 14:30	Coffee
14:30 - 15:30	Open Discussion The Dilemma of Balancing between Freedom of Speech and Censoring on Media Platforms Facilitator Prof. Dr. Petre Dini, IARIA, USA/EU Invitees Prof. Dr. Herwig Mannaert, Antwerpen University, Belgium Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, UK
15:30 - 16:00	Coffee Break
16:00 - 17:00	Keynote Speech Empirical Software Engineering; The Good, the Bad, and the Useful Prof. Dr. Luigi Lavazza, Università degli Studi dell'Insubria, Italy Chair: Emeritus Prof. Dr. ren. nat. Fritz Laux
17:00 - 17:30	Coffee
17:30 - 19:00	Tutorial Lecture

	<p>Honing New Tools for Innovation Farming: Introduction to Consequence Mapping Dr. Sara Kuppin Chokshi, Research Director, HITLAB / Founder, USA Genevieve Gurczenski, W. L. Gore & Associates, Emerging Technology Innovation, USA Lia Wolfe, W. L. Gore & Associates, Emerging Technology Innovation, USA</p> <p>Chair: Prof. Dr. Petre Dini</p>
19:00 - 20:00	Welcome Cocktail

Tuesday, Oct 18th

09:00 - 10:00	<p>Keynote Speech Data: Evolution and Durability Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, UK Emeritus Prof. Dr. ren. Nat. Fritz Laux, Hochschule Reutlingen, Germany Chair: Prof. Dr. Luigi Lavazza</p>	
10:00 - 10:30	Coffee Break	
10:30 - 12:15	Session 1 [SENSORDEVICES]	Session 2 [SIMUL/SIM-SC]
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	Session 3 [SENSORCOMM, SENSORDEVICES]	Session 4 [AFIN, FASSI, CENICS]
15:45 - 16:00	Coffee	
16:00 - 17:00	<p>Keynote Speech 5G for Digital Healthcare Prof. Dr. Esteve Hassan, Mohawk College, Canada Chair: Prof. Dr. Anders Fongen</p>	
17:00 - 17:30	Coffee Break	
17:30 - 19:00	<p>Panel I Cooperative Farming: Perspectives of Providers, Patients, and others Facilitator Lia Wolfe, W. L. Gore & Associates, Emerging Technology Innovation Panelists Jay Erickson, Modus, Chief Innovation Officer, Healthcare Lead, Founding Partner Shahid Shah, Node.Health, USA Gopalan V Balaji, W. L. Gore & Associates, Emerging Technology Innovation, USA Nitin Vaswani, Program Director, Node.Health, USA Brian Van Winkle, Node.Health, USA</p>	
20:00 - 23:00	Conference Dinner	

Wednesday, Oct 19th

09:00 - 10:00	<p>Keynote Speaker Beyond the Ramparts - What Artificial Intelligence Promises for Cyber Defence László Tóth, Software engineer/Researcher, University of Szeged, Hungary Chair: Prof. Dr. Herwig Mannaert</p>	
10:00 - 10:30	Coffee Break	
10:30 - 12:15	Session 5 [ICSEA, VALID]	Session 6 [HEALTHINFO -NewInnov I]
12:15 - 14:00	Lunch on your own	
14:00 - 15:45	Session 7 [SOTICS, CENTRIC]	Session 8 [HEALTHINFO - NewInnov II]

15:45 - 16:15	Coffee Break
16:15 - 18:15	<p align="center">Panel II</p> <p align="center">New Approaches on Solution Design to Support Implementation of Emerging Technologies for Healthcare</p> <p align="center">Facilitator</p> <p align="center">Sara Kuppin Chokshi, HITLAB, Research Director, USA</p> <p align="center">Panelists</p> <p align="center">Thomas Schmiedel, W. L. Gore & Associates, Innovations Team R&D Theo Fleck, W. L. Gore & Associates, Emerging Technology Innovation, USA Lia Wolfe, W. L. Gore & Associates, Emerging Technology Innovation Brian Van Winkle, Node.Health, USA Shahid Shah, Node.Health, USA</p>

Thursday, Oct 20th

09:00 - 10:45	Session 9 [SIMUL]
10:45 - 11:15	Coffee Break
11:15 - 13:00	Session 10 [SIMUL, HEALTHINFO]
13:00 - 14:30	Lunch on your own
14:30 - 16:15	Session 11 [SENSORDEVICES]
16:15 - 16:45	Coffee Break
16:45 - 18:30	Session 12 [SECURWARE]
18:30 - 18:45	Closing Session and Farewell

Friday, Oct 21st

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

DETAILED (on site) SESSION PROGRAM

Session 1 [SENSORDEVICES]

Session Chair: Manuel Vieira

The Removal of Particulate Matters (PM) using Solar-driven Steam Flow
Jeong Jae Kim

Experimental Comparison of Vital Sign Extraction using Off-The-Shelf MIMO FMCW Radar at Different Angles
Sung Ho Cho

Magnetic Microwires with Longitudinally Distributed Magnetic Properties for Sensor Applications
Alexander Chizhik

Impact of the Packaging on the Static Behavior of Piezoresistive Pressure Sensor Dedicated to the Monitoring of the
Bilel Achour

Session 2 [SIMUL/SIM-SC]

Session Chair: Frank Herrmann

Introduction
Frank Herrmann

A case study concept for supply chain resilience analysis
Frank Schätter

Performance of Storage Strategies in a High Bay Warehouse
Frank Herrmann

The Process-Simulation.Center
Lara Zakfeld

Open discussion and Closing remarks
Frank Herrmann

Session 3 [SENSORCOMM, SENSORDEVICES]

Session Chair: Carlo Simon

Design of knitted pressure sensors for tactile perception applications
Beyza Bozali

Integration of Digital Mobile Radio in a Sensor Network
Anders Fongen

Towards Safety Methods for Unmanned Aerial Systems to achieve Fail-Safe or Fail-Operational Behaviour
Philipp Stelzer

Session 4 [AFIN, FASSI, CENICS, SECURWARE]

Session Chair: Anders Fongen

Towards Personalized Context-Aware Recommendation Agent in Mobile Social Networks
Santipong Thaiprayoon

Implementing and Deploying an Execution Environment for Multidisciplinary-Analyses in a Heterogeneous Tool Landscape
Gerrit Schramm

Design of Novel Integrated Data Acquisition System for Multi-Channel Sensing in Landing Gear
Esteve Hassan

Authentic Batteries: A Concept for a Battery Pass Based on PUF-enabled Certificates
Julian Blümke

Session 5 [ICSEA, VALID]

Session Chair: Luigi Lavazza

Offline and Online Active Learning: Lessons in Teaching Software Engineering to Multicultural Groups
Simona Vasilache

Using a Combined Approach of Software Engineering and XR Engineering to Create Virtual Job Onboarding Environment: A Case Study
Marko Jantti

Bootstrapping Meta-Circular and Autogenous Code Generation
Herwig Mannaert

Validation and Verification of packaged based software PRESENTATION
Jos van Rooyen

Session 6 [HEALTHINFO/NewInnov I]

Session Chair: Sara Kuppin Chokshi

Introduction
Sara Kuppin Chokshi

Improving Healthcare Innovation for Emerging Technologies: New Approaches to Designing for Current Core Challenges
Sara Kuppin Chokshi

The Innovation Farm: A Modern Replacement for the Innovation Funnel
Gen Gurczenski and Jay Erickson

Making Artificial Cornea Real with Artificial Intelligence
Theo Fleck and Thomas Schmiedel

Session 7 [SOTICS, CENTRIC]

Session Chair: Lara Zakfeld

A Quantitative Social Network Analysis of Politicians' Tweets to Explore Political Communication
Heidi Schuhbauer

Sentiment Analysis of Twitter Posts on COVID-19 Cultural Dimensions: Collectivist vs. Individualist
Patricia Brockmann

Ideating XAI: An Exploration of User's Mental Models of an AI-driven recruitment system using a Design Thinking Approach
Helen Sheridan

A Systematic Literature Review on Technology Acceptance Research on Augmented Reality in the Field of Training and Education
Stefan Graser

Session 8 [HEALTHINFO/NewInnov II]

Session Chair: Sara Kuppin Chokshi

Engagement Centered Innovation: A GoodLife Media Case Study
Sara Kuppin Chokshi

Monitoring Activities for Maintaining Independent Living in Dementia
Dympna OSullivan

NODE.Health UX Measures - A Tool for Measuring and Improving User Experience for Patients and Clinicians
Jay Erickson

Opportunities Created by Healthcare's Adoption of AI & ML
Shahid Shah

Open discussion and Closing remarks
Moderator: Sara Kuppin Chokshi

Session 9 [SIMUL]

Session Chair: Marko Jantti

Optimal usage of marketing and sales to push residential refurbishment
Mart Verhoog

Informal Ways to Educate About Formal Modeling and Simulation with Petri Nets
Lara Zakfeld, Carlo Simon

Real-Time Simulation of Hybrid Electric Vehicle Efficiency using Functional Reactive Programming
Volker Schwarzer

Session 10 [SIMUL, HEALTHINFO]

Session Chair: Pascal Lorenz

An agent-based model for the management of the emergency department during the COVID-19 pandemic
Ramona Elizabeth Galeano Galeano

Electrophysiological answers to a checkerboard stimulus: a pilot study
Ana Ferreira

A Method for Accelerated Simulations of Reinforcement Learning Tasks of UAVs in AirSim

Alberto Musa

Analysis of upper limb contraction pattern using electromyographic signal during activities of daily living: a pilot study
Patricia Santos

Session 11 [SENSORDEVICES]

Session Chair: Beyza Bozali

Adaptive Traffic Control Through Visible Light Communication
Manuel Vieira

VLC Based Guidance System to be used by Mobile Users Inside Large Buildings
Manuela Vieira

Positioning using VLC Footprints
Paula Louro

Room temperature metal oxides-based gas sensors for detecting fish freshness
Kaidi Wu

Session 12 [SECURWARE]

Session Chair: Paula Louro

Unsupervised Graph Contrastive Learning with Data Augmentation for Malware Classification
Yun Gao, Hajime Shimada

BlockFW - Towards Blockchain-based Rule-Sharing Firewall
Wei-Yang

IDE Plugins for Secure Android Applications Development: Analysis and Classification Study
Mohammed El Amin Tebib

Do Cognitive Biases and Dark Patterns Affect the Legality of Consent Under the GDPR?
Joanna Taneva

Importance of Human Factors on Cybersecurity within Organizations
Elham Rajabian Noghondar

Open discussion

Theme: The Dilemma of Balancing between Freedom of Speech and Censoring on Media Platforms

Facilitator: Prof. Dr. Petre Dini, IARIA, USA/EU

Invitees:

Prof. Dr. Herwig Mannaert, Antwerpen University, Belgium

Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, UK

Topics:

- Misunderstanding of Freedom of Speech Essentials (thinking, faith, options, opinions) in Virtual Space
- Censorship (access, content, dissemination) vs Decency vs Accountability

- Perception of Media Platforms on (rather lack of) Digital Ethics
- Anonymity Impact on Fake news, Defamation, Half-truth
- Opposing Narratives Online and Promoting Hate
- Lack of Users Education and Awareness on Digital Services and Devices
- Nonexistence of Accountability/Punishments for Wrongdoers
- Is there any Light at-the-end of the Tunnel?