On site Activities (preliminary) Program

Novotel Barcelona Sant Joan Despi
Carrer de la TV3, 2
08970 Sant Joan Despi
Spain

Last Updated on April 25th

The program will be continuously updated

NexComm 2022: https://www.iaria.org/conferences2022/ProgramSPACOMM22.html

ComputationWorld 2022: https://www.iaria.org/conferences2022/PATTERNS22.html

Monday, April 25, 2022

13:00 Reception opens (it stays open on Tuesday, Wednesday)
Contact: Dr. Laura Garcia

15:00 - 16:00 Invited Special Keynote
Efforts and Lessons Learned in Making the Morehead State University's 21-m Ground Station
Operational for NASA lunar missions support
Timothy Pham, Jet Propulsion Laboratory, United States
Chair: Pascal Lorenz

16:00 - 16:30 Coffee

16:30 - 17:30 Keynote Speech
Theme: On-board Analytics of Earth Observation Satellite Sensor Data
Prof. Dr. Peter Baumann, Bremen Jacobs University, Germany
Chair: Pascal Lorenz

18:00 - 19:00 Welcome Cocktail
Coordinator: Prof. Dr. Pascal Lorenz

Tuesday, April 26, 2022

8:45 - 9:00 Opening
Prof. Dr. Pascal Lorenz

9:00 - 10:00 Keynote Speech
Approaches on Systems Governance and Policy

Prof. Dr. Mo Mansouri, Stevens Institute of Technology, USA, University of South-Eastern Norway, Norway, USA
Chair: Pascal Lorenz

10:00 - 10:15 Coffee break

10:15 - 11:15 Session 1 (CTRQ and SOFTENG)
Session Chair: David Last

Multiple Regression Models for identifying the causes of Radio Access Network User Dissatisfaction
Louise Travé-Massuyès

Software Architecture Evolution of a Physical Security Information Management System
Oğuzhan Özçelik

11:15pm - 11:30am Coffee

11:30 -13:00 Session 2 (ADAPTIVE)
ADAPTIVE / AISMS: Adaptivity in Intelligent and Secure Mobile Systems
Session Chair: Marc Kurz

Introduction
Marc Kurz

MeUI - Machine Learning Enhanced Adaptive User Interaction
Marc Kurz

Tree-Based Regressors for Predicting Energy Expenditure from Heart Rate in Wearable Devices
Stephan Selinger

Context-Aware Security Intelligence of Vulnerability Scanners in Cloud-native Environments
Jens Krösche

Complex Responsive Processes in a Multi-Agent System: A Knowledge Accelerator
Guido Willemsen

Open discussion and Closing remarks
Moderator: Marc Kurz

13:00 - 13:15 Coffee

13:15 - 14:15 Keynote Speech
Theme: Ensuring compliance with the FAIR principles in access to research data by building services for data management in scientific institutions

Dr Anna Wałek, Gdańsk University of Technology, Poland
Chair: Pascal Lorenz

14:15 - 15:15 Lunch Break

15:15 - 16:15 Keynote Speech
Theme: CFTaaS: Cyber Forensics Testbed as a Service
Dr. Juan-Carlos Bennett, Naval Information Warfare Center (NIWC) Pacific, USA
Chair: Pascal Lorenz

16:15 - 16:30 Coffee Break

16:30 - 18:00 Session 3 (PATTERNS)
PATTERNS / AI-DSRWA: Maturing Artificial Intelligence - Data Science for Real-World
Applications
Session Chair: Joschka Kersting

Introduction
Joschka Kersting

Tackling the "We have no Data" Challenge: Domain-Specific Machine Translation in SMEs
Frederik Simon Bäumer

Implicit Statements in Healthcare Reviews: A Challenge for Sentiment Analysis
Frederik Simon Bäumer

Concept of an Inference Procedure for Fault Detection in Production Planning
Jan Michael Spoor

Track Me If You Can: Insights into Profil Interlinking on Social Networks
Sergej Denisov

Open discussion and Closing remarks
Moderator: Joschka Kersting

18:00pm - 19:00pm TBD/Socializing

19:00pm - 21:30pm Gala Dinner

Wednesday, April 27, 2022

9:00 -10:00 Keynote Speaker
Theme: A Journey through 15 Years of Research about Service-based Computing for the
Insurance Industry - from SOA to Microservices -

Prof. Dr. Arne Koschel
Prof. Dr. Andreas Hausotter
Chair: Pascal Lorenz

10:00 - 10:15 Coffee break

10:15 - 11:45 Session 4 (COGNITIVE, PATTERNS, and SERVICES COMPUTATION)
Session Chair: Arne Koschel

No time to crash: Visualizing Interdependencies for optimal maintenance scheduling
Milot Gashi

Patterns for Quantum Error Handling
Martin Beisel

Towards the Implementation of Workflows in a Microservices Architecture for Insurance
Companies - The Coexistence of Orchestration and Choreography
Andreas Hausotter

The need of Security inside a Microservices Architecture in the Insurance Industry
Arne Koschel

11:45 - 12:00 Coffee

12:00 - 13:00 Keynote Speaker
Theme: Pitfalls in Empirical Evaluation of Algorithms
Prof. Dr. Andreas Fischer, Technischen Hochschule Deggendorf, Germany
Chair: Pascal Lorenz

13:00 - 15:00 Lunch Break

15:00 - 17:00 Session 5 (SPACOMM, ICN, MMEDIA, COGNITIVE, COMPUTATION TOOLS, and PESARO)
Session Chair: Pascal Lorenz

Design of Highly Selective Bandpass Filter with Wide Stopband using Open Stubs and Spurlines
for Satellite Communication (SATCOM) Applications
Nitin Muchhal

Using Distributed Ledger Technology for Command and Control and Decentralized Operations
David Last

Epipolar Shift Compensated Light Field Video Quality Metric
Nusrat Mehajabin

A Robust Learning Rule for Memristor-based Synapses Competitive with Supervised Learning in Standard Spiking Neural Networks
Thomas F Tiotto

High-pass Filters Preprocessing in Image Tracing with Convolutional Autoencoders
Andreas Fischer

Integral Safety Layers for Residential System Development
Mohammad Rajabali Nejad

17:00 Wednesday Farewell
Prof. Dr. Pascal Lorenz