

# On site Activities (*preliminary*) Program

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**Updated as of May 11, 2022**

**The program will be continuously updated**

InfoSys 2022: <https://www.iaria.org/conferences2022/ProgramICNS22.html>

InfoWare 2022: <https://www.iaria.org/conferences2022/ProgramINTELLI22.html>

**Monday, May 23rd**

**12:00 Reception opens (it stays open on Tuesday, Wednesday)**

Contact: Tanguy Lorenz

**13:30 - 13:45 Opening**

Prof. Dr. Pascal Lorenz

**13:45 - 14:45 Tutorial #1**

Theme: Automotive Security Inspections - Trust is Good, but Control is Better!

PhD Candidate Mona Gierl, Hochschule Karlsruhe, Germany

**14:45 - 15:00 Coffee**

**15:00 - 16:00 Tutorial #2**

Theme: From Ctrl-F to Information Retrieval - An Excuse into the World of Searching

Speaker: Prof. Dr. Andreas Schmidt, Department of Computer Science and Business Information

Systems University of Applied Sciences & Institute for Automation and Applied Informatics,

Karlsruhe Institute of Technology, Karlsruhe, Germany

**16:00 - 14:15 Coffee Break**

**16:15 - 17:15 Tutorial #3**

Theme: The Pyrrho Experiment

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

Prof. Dr. Friedrich Laux, Reutlingen University, Germany

**17-15 - 17:30 Coffee**

**17:30 - 19:15 Session #1 [ICAS]**

Session Chair: Andreas Schmidt

A Multimodal AI Approach for Intuitively Instructable Autonomous Systems: A Case Study of an Autonomous Off-highway Vehicle  
Gorjan Radevski, KU Leuven, Belgium

The Implementation of Disruptive Measures to Enhance Productivity in an Advanced-Manufacturing Environment  
Glenn Bright, University of KwaZulu-Natal, South Africa

Optimal Control of Unmanned Aerial Vehicles Electric Launcher  
Mohammad Sadraey, Southern New Hampshire University - Manchester, USA

**19:30 - 20:30 Welcome Cocktail**

Coordinator: Pascal Lorenz

**Tuesday, May 24th**

**8:45 - 9:00 Opening**

Prof. Dr. Pascal Lorenz

**9:00 - 10:00 Keynote Speech**

Theme: Modern Culture to Sustainably Improve Software Quality

Prof. Dr. Claudius Stern, Wirtschaftsinformatik an der FOM Hochschule in Kassel, Germany

Chair: Pascal Lorenz

**10:00 - 10:15 Coffee**

**10:15 - 11:30 Session #2 [DBKDA]**

Session Chair: Friedrich Laux

Hybrid Intelligence in Data Privacy Solutions

Lidia Ogiela, AGH University of Science and Technology, Poland

Context-aware Data Plausibility Check Using Machine Learning

Mihhail Matskin, KTH Royal Institute of Technology, Sweden

Comparison of Experiment Tracking Frameworks in Machine Learning Environments

Andreas Schmidt, University of Applied Sciences, Karlsruhe & Karlsruhe Institute of Technology, Germany

**11:15am - 11:30am Coffee Break**

**11:30 -13:15 Session #3 [ICCGI, HUSO, BRAININFO, COLLA]**

Session Chair: Juho Mäkiö

Semantic Approaches for Cognitive Data Processing

Urszula Ogiela, AGH University of Science and Technology, Poland

Reinventing Tourist Guide? Guide-lecturer's Profession after Digital Transformation  
Claudia Da Re, Gustave Eiffel University, France

Comparison of Two paradigms based on Stimulation with Images in a Spelling Brain-Computer Interface  
Ricardo Ron-Angevin, University of Málaga, Spain

Automated Data Preprocessing for Machine Learning based Analyses  
Akshay Paranjape, IconPro GmbH, Germany  
Praneeth Katta, IconPro GmbH, Germany

**13:15 - 13:30 Coffee**

**13:30 - 14:30 Keynote Speech**

Theme: Holistic Approach of ICT-Education  
Prof. Dr. Juho Mäkiö, University of Applied Sciences Emden/Leer Germany  
Chair: Pascal Lorenz

**14:30 - 15:30 Lunch Break**

**15:30 - 17:00 Session #4 [SIGNAL, WEB]**

Session Chair: Anders Fongen

Cleaning Outdoor Activity Logs using Deep Learning  
Sergio Tessaris, KRDB Research Centre - Free University of Bozen-Bolzano Bolzano, Italy

Alcohol Detection over Long Periods Using Smartphone Accelerometer Data  
Manuel Gil-Martín, Universidad Politécnica de Madrid, Spain

CIRC4Food Platform: An Intelligent Management System Supporting Sustainable Urban Agriculture  
Angelos Amditis, Institute of Communication & Computer Systems (ICCS), Greece

**17:00 - 17:15 Coffee Break**

**17:15 - 18:15 Keynote Speaker**

Theme: Smart buildings - How to Tackle Cybersecurity Threats in Smart Buildings and Stay ahead of Hackers?  
Marcin Bajer, Poland  
Chair: Pascal Lorenz

**18:15 - 18:30 Coffee**

**18:30 - 20:15 Session #5 [VEHICULAR, INTERNET]**

Session Chair: Marcin Bajer

Event-triggered Robust Output Feedback Controller for a Networked Roll Control System  
Fernando Viadero-Monasterio, Universidad Carlos III de Madrid, Spain  
Manuel Jimenez-Salas, Universidad Carlos III de Madrid, Spain

Simulation-based testing of service drones in U-Space environments  
Moritz Höser, Bauhaus Luftfahrt e. V., Germany

Challenges for Periodic Technical Inspections of Intelligent Cars  
Mona Gierl, University of Applied Sciences Karlsruhe, Germany

Cooperative caching in Space Information Networks  
Anders Fongen, Norwegian Defence University College, Norway

**20:30 - 23:00 Conference Dinner**

**Wednesday, May 25th**

**9:00 -10:00 Keynote Speaker**

Theme: Agility and Semantic Structures to Scaffold Modern Academic Education  
Prof. Dr. Böhm Karsten, Fachhochschule Kufstein, Austria  
Chair: Pascal Lorenz

**10:00 - 10:15 Coffee break**

**10:15 - 11:45 Session # 6 [ENERGY]**

Session Chair: Böhm Karsten

Attention-guided Neural Network for Non-intrusive Load Monitoring  
Huamin Ren, Kristiania University College, Norway

Constraint-based Modeling of Smart Grid Services in ICT-Reliant Power Systems  
Frauke Oest, University of Oldenburg, Germany

Green Energy Management Simulation using Multi-Agent Reinforcement Learning  
Kapil Deshpande, Profactor GmbH, Austria

**11:45 - 12:00 Coffee**

**12:00 - 13:00 Keynote Speaker**

Theme: Real Time Image Analysis and Visualisation utilising Computer Game Technologies  
Dr Gary Ushaw, Senior Lecturer and Director of Business and Engagement for the School of Computing at Newcastle University, UK

Chair: Pascal Lorenz

**13:00 - 14:00 Lunch Break**

**14:00 - 15:45 Session #7 [INTELLI]**

Session Chair: Frauke Oest

A Mathematical Topological Proof of the Irreducibility of Visual Consciousness to Physical Data  
Igor Reznikoff, Université de Paris Ouest, France

Smart Factory Automation for Robotic Production of Satellite Formations and Constellations  
Klaus Schilling, Informatik VII: Robotik und Telematik, University Würzburg, Germany

A Deep Learning based Unoccupied Parking Space Detection Method for City Lots  
Panos Nasiopoulos, University of British Columbia, Canada

Semantic Patterns to structure TimeFrames in Text  
Nour Matta, UTT, France

Linear Fuzzy Space Based Framework for Air Quality Assessment  
Endre Pap, University Singidunum, Serbia

**15:45 - 16:00 Coffee Break**

**16:00 - 17:00 Keynote Speaker**

Theme: Towards FPGAs as Platforms for Intelligent Systems and Applications  
Prof. Dr. Peter Roessler, University of Applied Sciences Technikum Wien, Austria  
Chair: Pascal Lorenz

**17:15 - 19:00 Session #8 [BIOTECHNO]**

Session Chair: Rosalba Giugno

A New Phased Array Magnetic Resonance Imaging Coil for HBO2 Studies  
Giorgio Bonmassar, Massachusetts General Hospital, Harvard Medical School, USA

Genome- Wide Identification of Opsin Protein in Leptosphaeria Maculans and Comparison with  
Other Fungi (pathogens of Brassica. napus)  
Marzieh Mohri, Czech University of Life Sciences, Czech Republic

Simulating Solar Irradiance Through AM Wave Equations for Metabolic Pathways  
Hermenegilda Macia, University of Castilla-La Mancha, Spain  
Edelmira Valero, University of Castilla-La Mancha, España

Simpati: Network-based System for Patients' Classification Reveals Disease Specific Pathways  
driven by Cohesive Communities  
Rosalba Giugno, University of Verona, Italy

**17:45 - 18:00 Closing Session**  
Chair: Pascal Lorenz