

## **On site Activities (*preliminary*) Program**

**Hotel Novotel Porto Gaia**  
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Porto, Portugal

**Updated as of June 6th, 2022**

**The program will be continuously updated**

**DataSys 2022:** <https://www.iaia.org/conferences2022/ProgramAICT22.html>

**DigitalWorld 2022:** <https://www.iaia.org/conferences2022/ProgramICDS22.html>

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

### **Monday, June 27**

**13:00 Reception opens (it stays open on Tuesday, Wednesday, Tuesday)**

**13:00- 16:00 Social networking**

#### **16:00 - 17:00 Keynote speech**

Theme: Active Interactive Remote Learning for Project-based Education  
Prof. Dr. Rodica Neamtu, Worcester Polytechnic Institute, USA

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

#### **17:15- 18:00 Keynote Speech**

Theme: Safe and secure cities  
Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway

**18:00 - 19:00 Social networking**

**19:00 - 20:00 Welcome Cocktail**

### **Tuesday, June 28**

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

Prof. Dr. Pascal Lorenz

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

Theme: Lives Saving Logistics for Emergency Services

Prof. Dr. Rob van der Mei, Centrum Wiskunde & Informatica (CWI) and Vrije Universiteit Amsterdam, the Netherlands

Chair: Petre Dini

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

**10:15 - 12:00 Session # 1 [AICT, eKNOW, eLmL, SMART ACCESSIBILITY]**

Session Chair: Lasse Berntzen

Energy Efficiency of LoRa based Wireless Sensor Network for Environmental Monitoring and Precision

Višnja Križanović

The Social Accumulator - An explanation model for digital interaction among human actors

Karsten Boehm

Time-Effective Logistics of Project-Based Course Electronic Instrumentation

Samuel Kosolapov

Economic Impact of adopting Assistive Technologies on Quality Adjusted Life Years and Work Productivity

Siny Joseph

**12:00 - 14:00 Lunch Break**

**14:00 - 15:00**

**Keynote Speech**

Theme: Digital Agriculture: Managing Data from Images and Sensors in Irrigated and Rainfed Crops

Dr. Lorena Parra Boronat, Instituto Madrileño de Investigación y Desarrollo Rural, Agrario y Alimentario (IMIDRA), Spain

Chair: Petre Dini

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

**15:30 - 17:15 Session #2 [AICT, MOBILITY, ICIW, ACCSE]**

Session Chair: Lorena Parra Boronat

Comparison of Code Constructions Suitable for High-Throughput Decoding

Sergei Semenov, HiSilicon, Finland

Ontology for the Context of E-Mobility: Charging Station Recommendation based on the EV Trip

Dimeth Nouicer, University of Tunis, Tunisia

Population-based routing in LEO satellite networks  
Anders Fongen, Norwegian Defence University College, Norway

Optimal Latency Guarantee for Multiple Concurrent Packets with New IP  
Lijun Dong, Futurewei Technologies Inc., USA

### **17:15- 17:30 Coffee Break**

### **17:30 - 18:30 Keynote Speaker**

Theme: Development of an Automatic Yarn Characterization System  
Prof. Dr. Vitor Hugo Mendes da Costa Carvalho, Polytechnic Institute of Cávado and Ave  
(IPCA), Barcelos, Portugal  
Chair: Pascal Lorenz

### **18:30 - 18:45 Coffee**

### **18:45 -20:30 Session #3 [ICDS]**

Session Chair: Vitor Hugo Mendes da Costa Carvalho

Community-Driven and User-Centred Design for An Innovative Distance Learning for  
Orthodontic Practitioners  
Aurelie Mailloux

Combining Model Driven Development and Agile Software Development  
Himesha Wijekoon

Transformation of class hierarchies during software development in UML  
Vojtech Merunka

First Step ID: Helping Rehabilitated Citizens Regain Their Government Issued Identification  
Ju Park

Design Thinking Applied to the Internet of Things - Technological Innovation in Agriculture and  
Food Processing  
Lasse Berntzen

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

## **Wednesday, June 29**

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

Theme: Flexible e-Skin Sensors and Energy Harvesting Devices  
Prof. Dr. Rui Igreja, NOVA School of Science and Technology - Almada, Setúbal, Portugal  
Chair: Pascal Lorenz

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

**10:15 - 12:00 Session #4 [GEOProcessing]**

Session Chair: Anders Fongen

Cross-border Delivery and Web-based Visualization of 3D Buildings  
Lassi Lehto

On the use of C2 quasi-interpolating spline surfaces to downscale a DEM  
Salah Eddargani

Towards Automatic Inference of Layouts of Traffic Intersections for Smart Cities  
Julien Vijverberg

Building an open personal trajectory repository  
Ville Mäkinen

**12:00 - 14:00 Lunch Break**

**14:00 - 15:00 Keynote Speaker**

Theme: The Continuum Paradigm: Reality or Fiction?

Prof. Dr. Eric J.H.J. Mantelaers, RA AA CISA C|CISO Zuyd University of Applied Sciences  
The Netherlands e.mantelaers@planet.nl

Chair: Alberto Rossi

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

**15:15 - 17:00 Session # 5 [GEOProcessing]**

Session Chair: Ville Mäkinen

Geographic Object-Based Image Analysis to delineate mapping units for land suitability  
assessment  
Andrei Dornik

Spatio-temporal clustering of polygon objects and per object interventions: Optimizing  
remediation of spatially dispersed contaminated parcels under an annual budget constraint  
Floris Abrams

A study of Zero-shot learning for Visual Search on Satellite and Aerial images  
Chuong Dang

A DEM quality dashboard: A multivariate quality assessment panel  
Francisco Javier Ariza-López

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

**17:30 - 19:30 Session #6 [eTELEMED]**

Session Chair: Lasse Berntzen

Use of electronic tools in Norwegian FACT Youth teams: a user perspective  
Erlend Bønes

A Practice-oriented Approach to Participatory Design  
Oivind Solvang

Assessing Methods to Model Patient-Centric Care Pathways across Multiple Healthcare Systems  
Sonja Cassidy

Electronic Health Records user experiences: a nationwide survey from Norwegian hospitals  
Espen Nordheim

Intended and Unintended Consequences of Implementing a Nursing App  
Gro-Hilde Severinsen

**Thursday, June 30**

**9:00 - 11:00 Session # 7 [eKNOW/Co-Par]**

Session Chair: Eric J.H.J. Mantelaers

Variation in job titles within the hospitality workforce: A computation grounded theory approach  
Amy Kitchiner

Towards a going concern assessment pipeline  
Lotte Verhoeven

How to Plot Current Pilots Results on the Audit Maturity Model? The Continuum Paradigm  
Ed Curfs

Toward a Continuous Measurement Model  
Qing Huang

Continuous Monitoring of Counter Accounts in Hospitality  
Anais Heeren

**11:00 - 11:15 Coffee Break**

**11:15 - 12:00 Session#8 [ACHI]**

Session Chair: Alberto Rossi

Suitability of immersive 2D environments for tertiary education using the gather environment as

an example  
Gerhard Hube

Designing Uburu: The Alpha Stage (Executive function rehabilitation application for mild traumatic brain injury)  
Akuadasuo Ezenyilimba

**12:00 - 14:00 Lunch Break**

**14:00 - 15:30 Session #9 [ALLSENSORS, MOBILITY]**  
Session Chair: Lijun Dong

Indoor Guidance Services Through Visible Light Communication  
Manuela Vieira

Visible Light Communication in Vehicular Communication Applications  
Manuel Vieira

VLC Footprint maps for Positioning and Guidance  
Paula Louro

SmartHelm: Design and Implementation of Open Source based Behavioral Data Repository  
Harish Moturu

**15:30 - 15:45 Coffee Break**

**15:45 - 17:45 Session #10 [eTELEMED, SMART]**  
Session Chair: Lasse Berntzen

Implementing and learning to use video meetings in mental health hospital departments  
Therapists' experiences from internal and external meetings. A qualitative study  
Monika K. Gullsløtt

Measuring Perceptions of Openness in Health Information Technology Platforms: Results from Pilot Testing Proposed Survey Framework  
Asbjørn Johansen Fagerlund

Medicinal product data standardisation in Agency for Medicinal Products and Medical Devices (HALMED) - challenges, learnings and impact on the (inter)national health systems  
Maja Fatiga

Smart Parking System Based on IoT Architecture and Intelligent Sensors  
Sofeem Nasim

**17:45 - 18:00 Closing Session**

**On site Farewell**