

On site Activities (*preliminary*) Program

Hotel Novotel Porto Gaia
Rua Martir Sao Sebastiao, Afurada,
4400-499 Vila Nova de Gaia
Phone: +351 22 772 8700
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