On site Activities (preliminary) Program

NOVOTEL VENEZIA MESTRE CASTELLANA

Via Ceccherini 21 30174 Venezia Mestre, Italy

Updated as of April 21, 2023 - 9:30am Standard Pacific Time The program will be continuously updated.

DigitalWorld: https://www.iaria.org/conferences2023/DigitalWorld23.html

NexComm: https://www.iaria.org/conferences2023/NexComm23.html

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

Session conference rooms	Room #1	Room #2	Room #3
Plenaries		Room #1	

Monday, April 24

	Registrati	on starts	
12:00	The registration desk is located in front of the conference		
	Open during the e	ntire conference	
13:15	Welcome	session	
	Tutorial Lecture		
13:30 - 14:30	How Pandemic Changed Critical Care Telemedicine		
15:50 - 14:50	Prof. Dr. Vitaly Herasevich, M.	D., Ph.D., Mayo Clinic, USA	
	Chair: Petre Dini		
14:30 - 15:00	Coff	ee	
15:00 - 17:00	Session 1B [GEOProcessing, ICDS,	Session 2B [eTELEMED,	
13:00 - 17:00	SMART ACCESS]	ALLSENSORS]	
17:00 - 17:30	Coffee		
	Keynote Speech		
	Enhancing Mission Support with New Communications Capabilities in		
17:30 - 18:30	the NASA Deep Space Network		
	Timothy T Pham, Jet Propulsion Laboratory, NASA, USA		
	Chair: Pascal Lorenz		
18:30 - 18:45	Coffee		
	Panel #1: Health Hour!		
	Theme: Challenges with Digital Health		
18:45 - 20:00	Moderator		
	Prof. Dr. Monika K. Gullslett, Norwegian Centre for EhealthResearch,		
	Norway		

	Panelists Prof. Dr. Vitaly Herasevich, M.D., Ph.D, Mayo Clinic, USA Prof. Dr. Niels Frederik Garmann-Johnsen, University of Agder, Norway Prof. Dr. Olga Levina, Technische Hochschule Brandenburg, Germany	
	DiplIng. Dr. techn. Gerold Hoelzl, University of Passau, Chair of Embedded Systems, Germany	
20:00 - 21:00	Welcome Cocktail You must have your badge to attend the cocktail	

Tuesday, April 25

09:00 - 10:00	Keynote Speech Leveraging Collaborative Metaprogramming for Sustainable Innovation and Co-Creation Prof. Dr. Herwig Mannaert, University of Antwerp, Belgium Chair: Luigi Lavazza		
10:00 - 10:30		Coffee Break	
10:30 - 12:15	Session 3B [ICDS, GEOProcessing]	ACHI-COCREATE I	Session 1A [ICONS. ALLSENSORS]
12:15 - 13:45		Lunch on your own	
13:45 - 15:30	Session 4B [ACHI]	DASAIT	Session 2A [ICN]
15:30 - 15:45	Coffee		
15:45 – 16:45	Keynote Speech How to Attract new Generations to Science, Technology, Engineering and Mathematics (STEM) by using IoT, Robotics and Drones? Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway Chair: Herwig Mannaert		
16:45 - 17:15	Coffee break		
17:15 - 19:00	Session 5B [eKNOW]	ACHI-COCREATE II	Session 3A [ICDT, MMEDIA, ACHI, ICONS]
19:00 - 19:15	Coffee		
19:15 - 20:30	Panel #2: Knowledge Hour! Theme: Deriving Useful Information from Huge Data Moderator Prof. Dr. Herwig Mannaert, University of Antwerp, Belgium Panelists Prof. Dr. Paulo E. Cruvinel, Ph.D., Embrapa Instrumentation, Brazil Prof. Dr. Martijn Zoet, Zuyd University of Applied Sciences, Sittard, the Netherlands Lect. Dr. rer. nat. Uwe Riss, OST - Eastern Switzerland University of Applied Sciences, Switzerland		

Prof. Dr. Guadalupe Ortiz B	Bellot, Universidad de Cádiz, Spain

Wednesday, April 26

09:00 - 10:00	Keynote Speech AI-aided Diagnosis and Virtual AI Imaging with Small-Data Deep Learning			
09.00 - 10.00	Prof. Dr. Kenji Suzuki, Tokyo Institute of Technology, Japan			
	Chair: Lasse Berntzen			
10:00 - 10:30		Coffee Break		
10:30 - 12:15	Session 6B [eTELEMED]	Session 7B [ACHI]	Session 4A [SPACOMM]	
12:15 - 13:45		Lunch on your own		
13:45 - 15:30	Session 8B [ACHI]	SATAE	Session 5A [SOFTENG, ALLDATA]	
15:30 - 15:45	Coffee			
15:45 – 17:30	Session 9B [ACHI]	CO-PAR-23	Session 6A [SOFTENG, eTELEMED]	
17:30 -18:00	Coffee break			
	Keynote Speech			
	A Systems Approach to Digital Transformation			
18:00 - 19:00	Prof. Dr. Mo Mansouri, Stevens Institute of Technology, USA University of			
	South-Eastern Norway, Norway			
10.00 10.15	Chair: Erik Buchmann			
19:00 - 19:15	Coffee			
	Keynote Speech Potentials of Directional Antennas for Indoor Positioning Systems in			
19:15 – 20:15	Dense Multipath Environments			
20.10	Prof. Dr. Oliver Michler, TU-Dresden, Germany			
		Chair: Mo Mansouri		
20:30 - 23:30	Conference dinner			

Thursday, April 27

09:00 - 10:00	Keynote Speech Big and Small Data Processing for Context-aware Smart Cities Prof. Dr. Guadalupe Ortiz Bellot, Universidad de Cádiz, Spain Chair: Oliver Michler		
10:00 - 10:30	Coffee Break		
10:30 - 12:15	ISELI	DA I	Session 13B [GEOProcessing]
12:15 - 13:45	Lunch on your own		
13:45 - 15:30	Session 10B [ACHI, ICDS]	DA II	Session 7A [ALLDATA, eTELEMED]

15:30 - 15:45		Coffee	
15:45 – 17:15	Session 11B [eLmL]	DA III	GEOSA
17:15 - 17:45		Coffee break	
17:45 - 20:00	Session 12B [eLmL]	Session 14B [GEOProcessing]	Session 15B [ALLSENSORS]

Friday, April 28

09:00 - 10:30	Panel #3: AI Hour Theme: AI: 360 Degrees around ChatGPT Moderator Prof. Dr. Kenji Suzuki, Tokyo Institute of Technology, Japan Panelists Prof. Dr. Gerald Penn, University of Toronto, Canada Prof. Dr. Katharina Frosch, Brandenburg University of Applied Sciences, Germany Pr. Lect. Dr. Lodewijk Arntzen, The Hague University of Applied Sciences, The Netherlands
10:30 - 11:00	Coffee
11:00 -12:30	Panel # 4: Systems Resilience Hour! Theme: Cohabitation of Humanized AI and Humans for Critical Systems Resilience Moderator Prof. Dr. Lasse Berntzen, University of South-Eastern Norway, Norway Panelists Prof. Dr. Oliver Michler, TU-Dresden, Germany Nadine-Christine Wessel, Technische Hochschule Brandenburg, Germany Prof. Dr. Petre Dini, IARIA, USA/EU
12:30 - 13:00	Coffee Break
13:00 – 14:30	Panel #5: Education Hour! Theme: Education Analytics / Enhanced Learning Moderator Prof. Dr. Susanne Stigberg, Østfold University College, Halden, Norway Panelists R&D Manager Daniela Pellegrini, R&D Manager, Piazza Copernico srl. , Italy Sen. Lect. Dr. Samuel Kosolapov, Braude College of Engineering KARMIEL (R.A.), Israel Assoc Lect. Dr. Martha Hubertz, University of Central Florida, USA Prof. Dr. Monika Maria Möhring, Technische Hochschule Mittelhessen, Gießen Germany Dr. Flavio Manganello, ITD-CNR, Italiy

	R&D Manager, Giannangelo Boccuzzi, Hypex srl - Monopoli, Italy
14:30 - 15:00	Farewell Coffee
Afternoon	Social Meeting in Piazza San Marco

Saturday, April 29

Recommended tourist objectives to be visited on your own:

Note: There is a bus from Novotel Venezia-Mestre Castellana to Piazzale Roma (twice/hour) Updated timetable is provided by the hotel.

From: Piazzale Roma

(*i*) *via public transportation* Grand Canal by public Vaporetto Lines

(ii) by Walking (narrow streets)

Scuola Grande di San Rocco Frari Church Rialto Bridge Food Market of Rialto Former Financial District of Venice Fenice Opera House Church of San Marco Dodges' Palace San Marco Belltower San Marco Piazza

(iii) Recommended

From San Marco Plaza - three islands: Murano, Burano, Torcello



REGULAR TRACKS

Session 1A [ICONS, ALLSENSORS] Session Chair: Andrzej Chydzinski

Transformative Computing for Cyber-Security Protocols Marek Ogiela, AGH University of Science and Technology, Poland

Software Engineering Project Management with the Community of Practice Approach: Toward Changes in Software Engineering Education *Charlie Shim, Kutztown University of Pennsylvania, USA*

Decentralized cooperative intersection management based on connected autonomous vehicles for urban unsignalized intersections *Jie Zhang, Ostfalia university of applied sciences, Germany*

Strategy for the Deployment of Water Internet of Things (WIoT) in Taiwan Chen Yang Hsu, Industrial Technology Research Institute, Taiwan

Session 2A [ICN] Session Chair: Charlie Shim

Higher-order Statistics of Series of Packet Losses Andrzej Chydzinski, Silesian University of Technology, Poland

Personalized Protocols for Data Hiding in Cloud-to-Things Applications Urszula Ogiela, AGH University of Science and Technology, Poland

Use cases and 6G architecture: new needs and challenges *Francine Oliveira, Instituto de Pesquisas Eldorado, Brazil*

Strategies for Minimization of Energy Consumption in Data Centers Simon Friis, Technical University of Denmark, Denmark

Session 3A [ICDT, MMEDIA, ACHI, ICONS]

Session Chair: Francine Oliveira

On the Performance of a Low-Complexity Data-Reuse RLS Algorithm for Stereophonic Acoustic Echo Cancellation *Cristian-Lucian Stanciu, University Politehnica of Bucharest, Romania Ionut-Dorinel Ficiu, University Politehnica of Bucharest, Romania*

Co-occurring word determination used for estimating best times for viewing seasonal organisms Yusuke Takamori, Polytechnic University, Japan Masaki Endo, Polytechnic University of Japan, Japan Protecting User Privacy in Online Settings via Supervised Learning Brooke Lampe, Technical University of Denmark, Denmark

A Five-Factor Market Approach For Long-Term Product Development: A Result of Systems Thinking Andy Mattuulat Filipovic, NTNU - Norwegian University of Science and Technology, Norway

Session 4A [SPACOMM]

Session Chair: Timothy T Pham

Large Scale Space Network Simulator for Performance Optimized DTNs Nadia Kortas, NASA Glenn Research Center, USA Timothy Recker, NASA, USA

Review on Recent Trends and Applications of Vivaldi Antenna in the Range of 1 GHz – 40 GHz *Nitin Muchhal, Fraunhofer IIS, Germany*

Characteristics and performance of Algerian Satellite Based Augmentation System (AL-SBAS) *TABTI Lahouaria, Algerian Space Agency, Algeria*

Design of High Gain Corrugated Antipodal Vivaldi Antenna With ∏ Shaped Metamaterial for SATCOM Applications *Nitin Muchhal, Fraunhofer IIS, Germany*

Session 5A [SOFTENG, ALLDATA]

Session Chair: Camilo Correa Restrepo

Lightweight Sample Code Recommendation System to Support Programming Education *Yoshihisa Udagawa, Tokyo University of Information Sciences, Japan*

Taxonomy of Requirements Specification Templates Hiba Hnaini, ENSTA Bretagne, France

Estimating Functional Size of Software with Confidence Intervals Luigi Lavazza, Universita degli Studi dell'Insubria, Italy

Software Monitoring of an IoT Chain Communicating over LoRaWAN *Mohamed El-Kharroubi, UPEC university, France*

Session 6A [SOFTENG, eTELEMED] Session Chair: Luigi Lavazza

Projects VS Continuous Product Development - Does it Affect Benefits Realization? Sinan Sigurd Tanilkan, Simula Metropolitan Center for Effective Digitalization of the Public Sector, Norway A Model Library Tool for Holistic Embedded Software Design Sven Jacobitz, Ostfalia university of applied sciences, Germany

A Lightweight Method to Define Solver-Agnostic Semantics of Domain Specific Languages for Software Product Line Variability Models *Camilo Correa Restrepo, University of Paris 1 Pantheon-Sorbonne, France*

Valkyrie: A Distributed Service-Oriented Architecture for Coordinated Healthcare Services *Terje Solvoll, Norwegian Centre for E-health Research, Norway*

Session 7A [ALLDATA, eTELEMED]

Session Chair: Sinan Sigurd Tanilkan

An Industrial Manufacturing Dataset together with Anomaly Detection Results integrated in an Open Stand-Alone Sharing Platform for Sustainable Replication *Gerold Hoelzl, University of Passau, Chair of Embedded Systems, Germany*

Seeking Higher Performance in Real-Time Data Processing through Complex Event Processing Alfonso García de Prado, University of Cádiz, Spain

Small dataset acquisition for machine learning analysis of industrial processes with possible uncertainties *Xukuan Xu, TU Dresden/TH Aschaffenburg, Germany*

Measuring C-Reactive Protein using Microring Resonators Lodewijk Arntzen, The Hague University of Applied Sciences, The Netherlands Daan Boesten, The Hague University of Applied Sciences, The Netherlands

Session 1B [GEOProcessing, ICDS, SMART ACCESSIBILITY]

Session Chair: Erik Buchmann

SODASENSE: An intelligence platform for micro-mobility, micro-climate and agriculture *Spiros Skiadopoulos, University of the Peloponnese, Greece*

CryptoPad: Dedicated Device for Convenient and Secure Wallet Jione Choi, Korea University, South Korea

Inclusive and Accessible Homes for Older People: The preparation of Guidelines for Home Design Sandeep Sankat, School of Planning and Architecture, India

Web Accessibility of Irish Local Government Websites Jennifer Kennedy, Dublin City University, Ireland

The Aggregator as a Trust Builder in a Renewable Energy System Lasse Berntzen, University of South-Eastern Norway, Norway

Session 2B [eTELEMED, ALLSENSORS]

Session Chair: Vitaly Herasevich

Adolescents Experiences with Video Consultations in Specialized Mental Health Services in Norway Henriette Lauvhaug Nybakke, Norwegian Centre for E-health Research, Norway Monika K. Gullslett, Norwegian Centre for E-health Research, Norway

Electronic Health Records User Satisfaction: Experience after implementation of a new system in Northern Norway Espen Nordheim, Norwegian Centre for E-health Research, Norway Ove Lintvedt, Norwegian Centre for E-health Research, University Hospital of North Norway

Assessing Well-Being in Spain in the Post-COVID era: A Population Study Using Mobile Sensors and Experience Sampling *Oresti Banos, University of Granada, Spain*

MRI-Compatible Cascaded Blood Pressure Microsensor Lodewijk Arntzen, The Hague University of Applied Sciences, The Netherlands Nils Boertjes, The Hague University of Applied Sciences, The Netherlands

Session 3B [ICDS, GEOProcessing]

Session Chair: Spiros Skiadopoulos

Implementation of Cyber Security Act in Public Financial institutions What are the Constraints and Enabling factors? *Emmanuel Awuni Kolog, University of Ghana, Ghana*

Long-Term Risks of IoT Devices: The Case of the Smart Fridge *Erik Buchmann, Universität Leipzig, Germany*

The Open Government Data Digital Disconnect: Observations on Open Data Support by Local Government *Jennifer Kennedy, Dublin City University, Ireland*

Improving Digital Literacy and Bridging the Digital Divide Among Vulnerable Groups with the DIGI-SCENA Project in Slovenia *Pika Škerlj, Center Korak, Kranj, Slovenia*

The Role of Food Sharing Applications (FSAs) in Supporting Food Waste Mitigation in Cities: Examples from Poland and Czechia Mateusz Rusin, Jagiellonian University, Poland Magdalena Pączek, Jagiellonian University, Poland Filip Bolicki, Jagiellonian University, Poland

Session 4B [ACHI]

Session Chair: Ramona Tolas

Rethinking Usability Heuristics for Modern Biomedical Interfaces *Stefan Röhrl, Technische Universität München, Germany*

Marcus: A Chatbot for Depression Screening Based on the PHQ-9 Assessment *Panagiotis Apostolellis, University of Virginia, USA*

Effects of saliency of an agent's input information on estimation of mental states toward the agent *Yuki Ninomiya, Nagoya University, Japan*

Distinct Characteristics between "Anshin" and Feeling of Safety Evaluations Shota Matsubayashi, Nagoya University, Japan

Session 5B [eKNOW] Session Chair: Gerald Penn

Commenter Behavior Characterization on YouTube Channels Shadi Shajari, University of Arkansas at Little Rock, USA

Uncovering the Dynamic Interplay of YouTube Co-commenter Connections through Contextual Focal Structure Analysis Mustafa Alassad, University of Arkansas at Little Rock, USA

Mining User Behavior: Inference of Time-boxed Usage Patterns from Household Generated Data Ramona Tolas, Technical University of Cluj Napoca, Romania

Tools Based on Word Embedding to Make Easy the Analysis of Emotions in Text *Claudia Martínez Araneda, UCSC, Chile*

Prediction Pipeline on Time Series Data Applied for Usage Prediction on Household Devices Raluca Portase, Technical University of Cluj-Napoca, Romania

Session 6B [eTELEMED]

Session Chair: Oresti Banos

A population-based study from electronic health records on the comorbidities of dementia older adults in Hong Kong Junpei 'Joni' Zhong, The Hong Kong Polytechnic University, China

Mastering the Telehealth Musculoskeletal Examination Edward R. Laskowski, Mayo Clinic Sports Medicine, USA

Designing Nudges in eHealth Niels Frederik Garmann-Johnsen, UiA, Norge Ethereum Blockchain in Healthcare: An Improved Framework Miss Laiha Binti Mat Kiah, Universiti Malaya, Malaysia

Co-designing Assistive Technology with and for Persons Living with Dementia *Dympna O Sullivan, TU Dublin, Ireland*

Session 7B [ACHI] Session Chair: Raluca Portase

e2Logos: A Novel Software for Evaluating Online Student Project Reports *Panagiotis Apostolellis, University of Virginia, USA*

Reassessing the Effect of Videoconferencing Features on Trust in Triadic Negotiation *Gerald Penn, University of Toronto, Canada*

A User-centred Design and Feasibility Analysis of the WiGlove - A Home-based Rehabilitation Device for Hand and Wrist Therapy after Stroke *Vignesh Velmurugan, University of Hertfordshire, UK*

Involving Users in the Development of AI-Supported CAM Systems by Co-Creation Methods Nina Rußkamp, RWTH Aachen University, Germany Lorena Niebuhr, RWTH Aachen University, Germany

Session 8B [ACHI]

Session Chair: Nina Rußkamp

Using Language Model for Implementation of Emotional Text-To-Speech *Jie Zhu, Shanghai Jiao Tong University, China*

Analysis of EEG microstates During Execution of a Nine Hole Peg Test Shadiya Alingal Meethal, University of Hertfordshire, UK

Usability of An Immersive Authoring Tool: An Experimental Study for the Scenarization of Interactive Panoramic Videos Daniel, Xuan Hien MAI, Université d'Evry, France

How Can Intelligent Persona Features Support Online Advertising Work? Joni Salminen, University of Vaasa, Finland

Session 9B [ACHI] Session Chair: Jie Zhu

Deep Learning for Condition Detection in Chest Radiographs: A Performance Comparison of Different Radiograph Views and Handling of Uncertain Labels *Mubashir Ahmad, University of Hertfordshire, UK*

User Perceptions and Attitudes in the Data Economy and their Contradictions Uwe Riss, OST - Eastern Switzerland University of Applied Sciences, Switzerland

How Should We Define Voice Naturallness Sajad Shirali-Shahreza, Amirkabir University, Iran and University of Toronto, Canada

Session 10B [ACHI, ICDS] Session Chair: Uwe Riss

Validating Usability Heuristics for Augmented Reality Applications for Elderly Users Anna Nishchyk, Oslo Metropolitan University, Norway

The Role of a Human Host onboard Urban Autonomous Passenger Ferries *Leander Pantelatos, NTNU, Norway*

Protecting User Privacy in Online Settings via Supervised Learning Brooke Lampe, Technical University of Denmark, Denmark

The Coloniality of Accessibility Links: From Universal Design to a Decolonial Model of (Dis)Ability Lorenzo Dalvit, Rhodes University, South Africa

Session 11B [eLmL]

Session Chair: Rachel Van Campenhout

Back to Normality - Changes in Time-Effective Logistics of Project-Based Course Electronic Instrumentation after COVID-19 limitations Samuel Kosolapov, Braude College of Eengineering KARMIEL (R.A.), Israel

Architectural Design of an Adaptive, Structure-Aware Intelligent Tutoring System Sebastian Kucharski, Dresden University of Technology, Germany

Enhancing Digital Learning: A User Management and Access System for Remote Laboratories *Marek Achilles, Hochschule Mittweida, Germany*

Session 12B [eLmL] Session Chair: Sebastian Kucharski

Leveraging Learning by Doing in Online Psychology Courses: Replicating Engagement and Outcomes Rachel Van Campenhout, VitalSource, USA Martha Hubertz, University of Central Florida, USA

Promoting interactive learning using 5G networks and synchronous immersive contents: the DI5CIS project *Flavio Manganello, ITD-CNR, Italia Giannangelo Boccuzzi, Prodea Group Spa, Italia*

Scan to Learn: A Lightweight Approach for Informal Mobile Micro-Learning at the Workplace *Katharina Frosch, Brandenburg University of Applied Sciences, Germany*

Session 13B [GEOProcessing] Session Chair: Lasse Berntzen

Dynamic Integration of Climate Properties with Geospatial Data for Energy Applications Lassi Lehto, Finnish Geospatial Research Institute (FGI), Finland

Visualization System for the Positioning of Sunken Vessels using Underwater Acoustic Devices Dohyeong Kim, ENGSOFT Inc., South Korea Sang-Hyeok Nam, ENGSOFT Inc., South Korea

Session 14B [GEOProcessing]

Session Chair: Erik Buchmann

Towards accurate traceability of water reaching the reservoirs *Lidia Ortega, Universidad de Jaén, Spain*

Using a Social Network for Road Accidents Detection, Geolocation and Notification – A Machine Learning Approach *Cláudio de Souza Baptista, Federal University of Campina Grande, Brazil*

Field validation of the Near Infrared (NIR) SENSOR for Vegetation Fire Detection using an Unmanned Aerial Vehicle (UAV)) Edwin Magidimisha, Council for Scientific and Industrial Research, South Africa

Session 15B [ALLSENSORS]

Session Chair: Nitin Muchhal

Implementation of underwater position tracking devices using underwater acoustic sensor and spread spectrum communication technology *Miheung Choe, Kyungwon Industry Co., Ltd Research Institute, South Korea*

Rapid and Accurate Time Synchronization using Visible Light for Mobile Sensing" Masanori Sugimoto, Hokkaido University, Japan

Printed humidity sensors and their application Zhiyi Zhang, National Research Council Canada, Canada

Designing and Manufacturing of Multifunctional Nanosensors using Ultrafast Laser Processing Yury Ryabchikov, HiLASE Centre, Institute of Physics of the Czech Academy of Sciences, Czech Republic Using a Silicon Drift Detector to Improve an Agricultural Compton Tomograph for Soil Compaction Analysis Paulo Estevão Cruvinel, Embrapa Instrumentation, Brazil

SPECIAL TRACKS

ACHI-COCREATE I: Design Practices for Co-Creation and Learning Chair: Susanne Stigberg,

Introduction Susanne Stigberg, Østfold University College, Norway Joakim Karlsen, Østfold University College, Norway

Reflections on Participatory Design Application in Public Sector IT Project Management *Klaudia Carcani, Østfold University College, Norway*

Making Technology Matter for Processes of Co-creation and Innovation in Cross-sectorial Collaborations *Fahd Bin Malek Newaz, University of Oslo, Norway*

Participatory Design Fictions: Supporting Ethical Awareness in the Digitalisation of Smart Cities' Critical Infrastructure Joakim Karlsen, Østfold University College, Norway

ACHI-COCREATE II: Design Practices for Co-Creation and Learning Chair: Joakim Karlsen

Unveiling the Potential of Digital Fabrication in Arts and Crafts Education: A Future Workshop Approach for Technology-Enhanced Teaching *Susanne Stigberg, Østfold University College, Norway*

Lunde Exploring Medical Practitioners Abilities to Use Visual Programming to Code Scenarios for Virtual Simulations *Bjørn Arild Lunde, Østfold University College, Norway*

Finding Common Ground: Design Cards Supporting Mutual Learning in Co-design *Tina Helene Bunæs, Østfold University College, Norway*

Open Discussion and Closing Remarks Moderators: Susanne Stigberg, Joakim Karlsen

SATAE: Sensors and Actuators for Agricultural Decision Making and Knowledge in Engineering Chair: Paulo E. Cruvinel

Introduction Paulo E. Cruvinel

Characterization of an IoT Stereo Image Sensor System for Weed Control Bruno Moraes Moreno, Federal University of São Carlos, Brazil

Developing Affordable Sensors in Agriculture Based on Results Obtained at Embrapa Instrumentation Paulo S de Paula Herrmann Jr., Embrapa Instrumentation, Brazil

A Model Based on Intelligent Sensor to Control Sprinklers in Spray Actions Elmer Peñaloza, Federal University of Pelotas, Brazil

New Design for Thermo-formed Piezoelectret Accelerometer Igor Nazareno Soares, University of São Paulo

Open Discussion and Closing Remarks Moderator: Paulo E. Cruvinel

CO-PAR-23: Continuum Paradigm Chair: Eric J.H.J. Mantelaers

Introduction Eric J.H.J. Mantelaers, Zuyd University of Applied Sciences, the Netherlands

Computational Grounded Theory - An Experiment: Human versus Machine *Clint Wolfs, Zuyd University of Applied Sciences, the Netherlands*

Technological Support for Correcting Exams: The Continuum Paradigm Next Step Forward to Build a Holistic Continuous Audit Model Ed Curfs, *Zuyd University of Applied Sciences, the Netherlands*

Usage of Audit Data Analytics within the accountancy sector Lotte Verhoeven, Zuyd University of Applied Sciences & RSM Netherlands Accountants N.V., the Netherlands

Cloud based Continuous Monitoring: An Implementation of Channel Stuffing Detection Framework *Miklos Vasarhelyi, Rutgers University, USA*

Open Discussion and Closing Remarks Moderator: Eric J.H.J. Mantelaers

ISELI: Innovative Solutions on Emerging Learning Needs Chair: Daniela Pellegrini

Introduction Daniela Pellegrini, Piazza Copernico srl, Italy

Active Learning in Teaching Digital Tourism Courses: preliminary results through Online Travel Business Simulation *Michele Angelaccio, University of Rome Tor Vergata, Italy*

Sustainability and Metaverse in Education and Training: Barriers, Opportunities and Environmental Impact *Cinzia Mezzetti, Piazza Copernico srl, Italy*

Learning Time Patterns: Many Study Times to Consider When Designing Digital Learning Sara Zuzzi, Piazza Copernico srl, Italy

Accessibility in e-Learning: From Inclusive Choice to Universal Training Saverio Santulli Sanzo, Piazza Copernico srl, Italy

Open Discussion and Closing Remarks Moderator: Daniela Pellegrini

GEOSA: Geospatial and Earth Observation Systems Applications Chair: Rouhollah Nasirzadehdizaji

Introduction Rouhollah Nasirzadehdizaji, Yüksel Proje Inc., Department of Water and Environment, Turkey

Application of InSAR Method to Estimate the Surface Deformation of the May Embankment Dam, Turkey Rouhollah Nasirzadehdizaji, Yüksel Proje Inc., Department of Water and Environment, Turkey

Geo-processing Approaches for Urban Water Supply and Drainage Systems' Data Rehabilitation *Cagri Cimen, Yüksel Proje Inc., Department of Water and Environment, Turkey*

Development of Web-Based Geospatial Application for Efficient Spatial Data Management Rouhollah Nasirzadehdizaji, Yüksel Proje Inc., Department of Water and Environment, Turkey

Development of Data Quality Improvement Method for Hydrodynamic Model of Urban Drainage System Using GIS Capabilities Anil Olgac, Yüksel Proje Inc., Department of Water and Environment, Turkey Open Discussion and Closing Remarks Moderator: Rouhollah Nasirzadehdizaji,

DASAIT: Design and Application of Socially-aware IT Chair: Olga Levina

Introduction Olga Levina, TH Brandenburg, University of Applied Science, Germany

Taking the Matter in their own Hands – Can Business Unit Developers Fulfill their Digital Demands with Low-Code Development Platforms *Olga Levina, TH Brandenburg, University of Applied Science, Germany*

Decision-Support Systems and Decision Making: Managing Decisional Deskilling in Human-DSS Interaction in Organizations. A Quantitative Study Nadine-Christine Wessel, *TH Brandenburg, University of Applied Science, Germany*

Mobile Instant Messaging and User Interface Design- Different Age Groups, Different Requirements *Olga Levina, TH Brandenburg, University of Applied Science, Germany*

Open Discussion and Closing Remarks Moderator: Olga Levina

DA I: Digital Accessibility I Chair: Monika Maria Möhring

Introduction Monika Maria Möhring, Technische Hochschule Mittelhessen, BliZ, Germany

Digital Accessibility in Multinational Enterprises: A Meta Study Andreas Deitmer, Instituto Universitário de Lisboa (ISCTE-IUL), Portugal and Technische Hochschule Mittelhessen (THM) - University of Applied Sciences, Germany

Digital Audio-Tactile Graphics for Inclusion in Education, the Workplace and Everyday Life *Sahin Görenekli*, Technische Hochschule Mittelhessen, BliZ, Germany

Booth: Digital Audio- and Voice-Based Tools for Inclusion in Education and Everyday Life Zeki Öztürk, THM Giessen (BliZ), Germany

DA II: Digital Accessibility II Chair: Monika Maria Möhring

An Audible Handheld Ultra-Sonic-Sonar (AHRUS) to Support Human Echo Location

Michael Kreutzer, THM, Germany

A Framework for Developing Modular Mobility Aids for People with Visual Impairment- An Indoor Navigation Use Case *Michael Kreutzer, THM, Germany*

Design of an Accessible VR-Escape Room for Accessibility Education *Saba Mateen, studiumdigitale, Germany*

How to create a Campaign to raise Awareness about digital Barriers Sanja Grimminger, Goethe University Frankfurt, Germany

DA III: Digital Accessibility III Chair: Monika Maria Möhring

Proof of Concept: Utilizing Smartphone Modules for Accessibility at Physical Conferences *Linda Rustemeier, Goethe University Frankfurt, Germany*

The Tension Field of Digital Teaching from the Perspective of Teachers Sarah Voß-Nakkour, Goethe University Frankfurt, Germany

UEmbed: An Authoring Tool to Make Game Development Accessible for Users Without Knowledge of Coding Imran Hossain, Goethe University Frankfurt, Germany

Open Discussion and Closing Remarks Moderator: Monika Maria Möhring

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