

ICE/IEEE ITMC Conference 2020

Digitalization through Digital Twins – Innovation in the analysis and management of environmental and physical engineered complex systems

Any issues during the conference please contact:

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ICE App

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Conference Program

Note: All times in Central European Summer Time (CEST)

Friday 12th June 2020

1400 to 1800 – Zoom Testing

Information	Zoom Details
Authors are free to connect to zoom to test their connection and presentation of slides.	<u>Click here to join the Zoom call</u>

Monday 15th June 2020

0900 – 1030 Plenary

Information	Zoom Details
Plenary & Keynote – Chair: Professor Y Rezgui	
<ol style="list-style-type: none"> 1. Professor Yacine Rezgui & Dr Thomas Beach – Welcome and Agenda 2. Mr Nick Tune, Digital Engineering Director Atkins Global 	Click here to join the Zoom call

1030 – 1100 Break – [Click here to join Zoom for informal discussions.](#)

1100 – 1230 Paper Sessions

Information	Zoom Details
Digital Twins	
Chair: Prof Yacine Rezgui & Dr Tom Beach	
<ol style="list-style-type: none"> 1. Alexandre Carvalho - The 4-corner model as a synchromodal and digital twin enabler in the transportation sector 2. Stavros Lounis - Enhancing Cognition for Digital Twins 3. Arne J. Berre- COGNITWIN – Hybrid and Cognitive Digital Twins for the Process Industry 	Click here to join the Zoom call
Digital Innovation	
Chair: Dr P Lacom (KL)	
<ol style="list-style-type: none"> 1. Haroon Abbu - DIGITAL LEADERSHIP - Character and Competency Differentiates Digitally Mature Organizations 2. Juhani Risku - What Makes a Digital Game Addictive? A Player Viewpoint on Player Retention 3. Jhonattan Miranda - Achieving Innovation and Entrepreneurship by Applying Education 4.0 and Open Innovation 4. Robyn Goff - Identifying tools to aid in the Management of Donations Across NGOs 	Click here to join the Zoom call
Project Management	
Chair: Prof. G. Fernandes and R. Bierwolf (AH)	
<ol style="list-style-type: none"> 1. Ana Simões - Organizational Enablers to the Governance of Collaborative University-Industry R&D Programs 2. Ljubisa Vaskic - Project Management in the Formation of a Specialized Engineering Team: The Case of the Integrated Logistics Support (ILS) Team at Wärtsilä SAM Electronics GmbH 3. Stefan Trieflinger - Facing the Challenges with Product Roadmaps in Uncertain Markets: Experience from Industry 	Click here to join the Zoom call

1230 – 1400 Break – [Click here to join Zoom for informal discussions.](#)

1400 – 1530 Paper Sessions

Information		Zoom Details
Services & Agile Methods	Chair: Mr A. R. Abdel Razeq (KL)	
<ol style="list-style-type: none"> 1. Calvin Rix - Typology of Digital Platforms in the Mechanical Engineering 2. Wei Min Wang - Potentials and challenges of Smart Products and related business models 3. Myrna Flores- Insights towards an agile enterprise 	Click here to join the Zoom call	
Sustainability	Chair: Dr Thomas Beach	
<ol style="list-style-type: none"> 1. Manuella Kadar - Data Analytics to Support Energy Efficiency Assessment in Educational Buildings 2. Sabine Baumann - Urban Mining: Applying Digital Twins for Sustainable Product Cascade Use 3. Sara Baltazar - Enterprise Information Systems (EIS) as a key driver towards improved mobility 	Click here to join the Zoom call	
Innovation Management	Chair: Dr. A. Lecossier and Dr. M. Pallot (AH)	
<ol style="list-style-type: none"> 1. Lakshminarayana Kompella - Technological characteristics and organizational innovation: examining as genotypes and phenotypes 2. Manon Enjolras - Analysis of SMEs' Innovation Capability: Towards a Taxonomic Approach based on Internal and Contextual Factors 3. Dalia Al-Eisawi - A Framework for Responsible Research and Innovation in new Technological Trends Towards MENA Region 	Click here to join the Zoom call	

1530 – 1600 Break – [Click here to join Zoom for informal discussions.](#)

1600 – 1700 Paper Sessions

Information	Zoom Details
ICT4 Health	Chair: Dr Luke Maki (AH)
<ol style="list-style-type: none"> 1. Elizabeth Leonard - Investigating the barriers and facilitators to implementing an eHealth innovation into a resource-constrained setting: a South African case study 2. Sanelisiwe Hlongwane - Information Systems for Value Creation in Health Ecosystems: A Systematic Literature Review 	<u>Click here to join the Zoom call</u>
Internet of Things & Cyber Physical Systems	Chair: Professor Yacine Rezgui & Dr Thomas Beach
<ol style="list-style-type: none"> 1. Lauri Koivunen - Increasing Customer Awareness on Food Waste at University Cafeteria with a Sensor-Based Intelligent Self-Serve Lunch Line 2. Martin Dobler - Supporting SMEs in the Lake Constance Region in the Implementation of Cyber-Physical-Systems: Framework and Demonstrator 	<u>Click here to join the Zoom call</u>
COVID-19	Chair: Dr Marc Pallot (KL)
<ol style="list-style-type: none"> 1. Budi Harsanto - The First-Three-Month Review of Research on Covid-19: A Scientometrics Analysis 2. Adrien Lecossier - Innovation Strategies of Mature Resilient Businesses during the Covid-19 crisis 	<u>Click here to join the Zoom call</u>

Tuesday 16th June 2020

0900 – 1030 Plenary

Information	Zoom Details
Plenary & Keynote – Chair: Dr Marc Pallot & Prof Yacine Rezgui	
1. Erastos Filos – Public Funding Support for Manufacturing R&D: Rationale Past and Future. The Example of EU Research Programs.	<u>Click here to join the Zoom call</u>

1030 – 1100 Break – [Click here to join Zoom for informal discussions.](#)

1100 – 1230 Paper Sessions

Information		Zoom Details
AI & Big Data	Chair: Dr Ioan Petri & Prof Yacine Rezgui	
1. Matthew Keaton - WiFi-based In-home Fall-detection Utility: Application of WiFi Channel State Information as a Fall Detection Service 2. Derk Hendrik Dominick Eggink - Automated joining element design by predicting spot-weld locations using 3D convolutional neural networks 3. Muhidin Mohamed - Trends of digitalization and adoption of big data & analytics among UK SMEs: Analysis and lessons drawn from a case study of 53 SMEs	<u>Click here to join the Zoom call</u>	
Industry 4.0	Chair: Prof L. Canetta (AH)	
1. Ana Correia Simões - The impact of Industry 4.0 on work: A synthesis of the literature and reflection about the future 2. Julian Rüb - The Examination of the Corporate Organisation and Implementation of Industry 4.0 in a High Value German Manufacturing Firm. 3. Omkar Salunkhe - Increasing operational flexibility using Industry 4.0 enabling technologies in final assembly	<u>Click here to join the Zoom call</u>	
Innovation	Chair: Dr Marc Pallot & Dr L Dupont (KL)	
1. José Coelho Rodrigues - The influence of perceptions in adoption intention and behavior – a case study of a biomedical product 2. Budi Harsanto - Responsible Research and Innovation (RRI) in Emerging Economies: a Preliminary Review 3. Stefan Trieflinger - Product Discovery – Building the Right Things: Insights from a Grey Literature Review	<u>Click here to join the Zoom call</u>	

1230 – 1400 Break – [Click here to join Zoom for informal discussions.](#)

1400 – 1530 Paper Sessions

Information		Zoom Details
Digital Twins	Chair: Professor Yacine Rezgui	
<ol style="list-style-type: none"> 1. Daniel Cortes- Digital Pyramid: an approach to relate industrial automation and digital twin concepts 2. Carlo Bianconi- System Thinking Approach for Digital Twin analysis 3. Wajid Ali Khilji - Employing digital twins within production logistics 		Click here to join the Zoom call
ICT4 Health	Chair: Dr L Maki (KL)	
<ol style="list-style-type: none"> 1. Lutze Rainer - Digital Twin Based Software Design in eHealth – A New Development Approach for Health / Medical Software Products 2. Bronwyn Joubert - Towards a hospital leanness assessment tool: A review 3. Fernando Luis Ferreira - Sleeping Movement Detection Towards Mental Health Indicators 		Click here to join the Zoom call
Innovation	Chair: Prof. G. Fernandes & Dr P Lacom (AH)	
<ol style="list-style-type: none"> 1. Negin Samaeemofrad - A Moderating Role of Absorptive Capacity within Incubation Support 2. Pauline Lacom - Proposition of a Tool to Evaluate User-Driven-Innovation in a Manufacturing Company 3. Flavius Sturm - Open Strategy in a Research Organization: Joint Exploration of Research Opportunities in Logistics & IT 		Click here to join the Zoom call

1530 – 1600 Break – [Click here to join Zoom for informal discussions.](#)

1600 – 1700 Paper Sessions

Information		Zoom Details
Digitisation	Chair: Prof David Romero (KL)	
<ol style="list-style-type: none"> 1. Neha Pawar - Assessment of Success Factors for Cloud adoption in Semiconductor Industry using Hybrid DEMATEL-ANP 2. Sandra Cecilia Bautista Rodríguez - Sustainable roadside management from an innovative approach to ecosystem services and bioenergy generation 	Click here to join the Zoom call	
Digital Twins	Chair: Prof Yacine Rezgui & Dr Alain Zarli	
<ol style="list-style-type: none"> 1. Evrim Örs - A Conceptual Framework for AI-based Operational Digital Twin in Chemical Process Engineering 2. Giuseppe Vignali - A digital twin model of a pasteurization system for food beverages: tools and architecture 	Click here to join the Zoom call	
Future Transport	Chair: Prof L. Canetta (AH)	
<ol style="list-style-type: none"> 1. Tyron Donovan Offerman - IT security challenges for continuously connected near-autonomous vehicles 2. Yona Paproth - Model for future thin-haul air mobility demand in Germany 	Click here to join the Zoom call	

Wednesday 17th June 2020

0900 – 1030 Paper Sessions

Information	Zoom Details
AI, Big Data & Blockchain	Chair: Dr Ioan Petri & Professor Yacine Rezgui
<ol style="list-style-type: none"> 1. Shantanoo Desai - An Implementation of IoT-Based Product Tracking with Blockchain Integration for a B2B Platform 2. Rebecca D'Agostino- EMOTIONET: A Multi-Convolutional Neural Network Hierarchical Approach to Facial and Emotional Classification using TPUs 3. Sara Grobbelaar - A Framework for the Implementation of Artificial Intelligence in Business Enterprises: A Readiness Model 	<u>Click here to join the Zoom call</u>
Living Labs	Chair: Dr Giovanni Arbelaez, (KL)
<ol style="list-style-type: none"> 1. Ilia Maslov - Usability and UX of Learning Management Systems: An Eye-Tracking Approach 2. Giovanni Arbelaez-Garces - Designing interactive museum visitors' experience using a Fab Living Lab platform: the Museum-Aquarium of Nancy case 3. Maxence Arnould - Developing a territorial diagnostic as part of a living lab process: Implementation to improve management and wood mobilization in small French private forest 	<u>Click here to join the Zoom call</u>
Digitising Sustainability	Chair: Dr Tom Beach
<ol style="list-style-type: none"> 1. Kuei Kuei Lai - Identifying the Technological Positions and Roles using Patent Citation Network: The case of Solar Photovoltaic Cell Companies 2. Manuella Kadar - Sustainability Is Not Enough: Towards AI Supported Regenerative Design 3. Bertram Lohmueller - Integrated Management of Environmental Technologies A New Approach based on the Concept: Green Integrated Technology Management & Leadership 'Green IMLead[®]' 	<u>Click here to join the Zoom call</u>

1030 – 1100 Break – Click here to join Zoom for informal discussions.

1100 – 1300 Paper Sessions

Information	Zoom Details
Living Labs	Chair: Dr Laurent Dupont (KL)
<ol style="list-style-type: none"> 1. Giovanna Mangialardi - Living Lab as enabler of new technologies in Public Administrations: the B@ARCA project 2. Fabio Cruz Sanchez - Connecting the strategic intent of innovation labs and projects: the case of the Green Fablab 3. Marcin Topolewski - Applying A User eXperience-based Adoption Model in Several App Idea Cases 4. Alex Gabriel - Applying a Living Lab Approach to Smart Grid Training Course Design 	<u>Click here to join the Zoom call</u>
Industry 4.0	Chair: Dr Kjetil Kristensen (AH)
<ol style="list-style-type: none"> 1. Susan King - Industry 4.0 from a Business Model Perspective: A Scoping Review 2. Markus Schmidtner - Towards an adaptive reference model for agile and hybrid frameworks in automotive development 3. Anna-Maria Clauß - A Systems Theory and Action Design Research Perspective on Supply Chain Collaboration in the Context of SCM 4.0 4. Roberto Rocca - Industry 4.0 solutions supporting Circular Economy 	<u>Click here to join the Zoom call</u>
Innovation & Entrepreneurship	Chair: Dr Marc Pallot (TB)
<ol style="list-style-type: none"> 1. Christoph Selig - Strengthening Organizational Ambidexterity through Corporate Entrepreneurship Activities 2. An Hai Ta - Thinking through exploration and exploitation in start-ups: A case of research commercialisation 3. Samuli Laato - Evaluation of the Pedagogical Quality of Mobile Math Games in App Marketplaces 	<u>Click here to join the Zoom call</u>

1300 – 1400 Lunch – [Click here to join Zoom for informal discussions.](#)

1400 – 1530 Paper Sessions

Information	Zoom Details
Living Labs	Chair: Dr Marc Pallot (KL)
<ol style="list-style-type: none"> 1. Marc Pallot - Is anticipated User eXperience a means to reveal the potential adoption of innovative ideas? 2. Heidy Montero - Repeated Cross-Sectional Study of a Mobile App User-Experience 	<u>Click here to join the Zoom call</u>
Innovation & Entrepreneurship	Chair: Dr P Lacom (AH)
<ol style="list-style-type: none"> 1. Julia Kossowski - Digital Fitness – Goal for the Chief Digital Officer 2. Nicolai Heinzelmann - Critical Actions of and Synergies between Corporate Entrepreneurship Programs 3. Avirag Bajpai - Assessment of Success Determinants for Implementing Digitalization in Indian Construction Industry 	<u>Click here to join the Zoom call</u>
Digitisation	Chair: Prof David Romero (TB)
<ol style="list-style-type: none"> 1. Lucia Ramundo - Sustainability Model for 3D Food Printing Adoption 2. Habib Ur Rehman - Eigenvalue stability analysis of DFIG based Dig SILENT PowerFactory wind energy converter model using MATLAB 	<u>Click here to join the Zoom call</u>

1530 – 1600 Break – [Click here to join Zoom for informal discussions.](#)

1600 – 1700 Closing Session

Information	Zoom Details
Closing Session – Chair: Dr Marc Pallot & Professor Y Rezgui	
<ol style="list-style-type: none"> 1. Professor Yacine Rezgui & Dr Thomas Beach – Prizes and Awards 2. Look forward to ICE2021 	<u>Click here to join the Zoom call</u>