

Wednesday, 21 Dec

9:00 - 9:10 Welcome

Chair: Maria Papadaki

Room: [Virtual Room 1](#)

9:10 - 10:00 Keynote Speech: The application of Distributed Ledger Technologies in building safety

Chair: Paulo Rupino da Cunha

Room: [Virtual Room 1](#)

10:00 - 11:00 Metaverse

Chair: Marinos Themistocleous and Horst Treiblmaier

Room: [Virtual Room 1](#)

10:00 Virtual Immersive Workplaces: The New Norm? – A Qualitative Study on the Impact of VR in the Workplace

Mahdieh Darvish, Laura Keresztyen, Markus Bick

10:30 The University of Nicosia Metaverse Experiment: The 1st on-chain in-metaverse academic course

Marinos Themistocleous

10:00 - 11:00 IT Governance and alignment

Chair: Gianluigi Viscusi

Room: [Virtual Room 2](#)

10:00 The Digital Operational Resilience Act for Financial Services: A Comparative Gap Analysis and Literature Review

Anita Neumannova, Edward W. N. Bernroider, Christoph Elshuber

10:30 Towards a Taxonomy of Strategic Drivers of IT Costs

Constanze Riedinger, Melanie Huber, Niculin Prinz, Christopher Rentrop

11:00 - 11:10 Break session

11:10 - 12:50 Digital Governance

Chair: Evripidis Loukis, Yannis Charalambides and Charalambos Alexopoulos

Room: [Virtual Room 1](#)

11:10 Extending the “Smart City” Concept to Small -to-Medium Sized Estonian Municipalities: Initiatives and Challenges Faced

Karin Amukugo Fröhlich, Ralf-Martin Soe, Pardon Blessings Maoneke, Karishma Jain, Antti Pinomaa, Marko Nieminen

11:35 A comprehensive framework for measuring governments' digital initiatives including open data

Mohsan Ali, Ioannis Zlatinis, Charalampos Alexopoulos, Yannis Charalabidis, Loukis Euripidis

12:00 Evaluating Government University Digital Distance Learning Policies in the Covid-19 Period

Niki Kyriakou, Nikolaos Kompos, Euripidis Loukis, Theodoros Leoutsakos

12:25 Tools for calculating the ICT footprint of organisations: adaptation of a European study

Guillaume Bourgeois, Benjamin Duthil, Vincent Courboulay

11:10 - 12:50 Information Systems Security and Information Privacy Protection

Chair: Aggeliki Tsohou and Vasiliki Diamantopoulou

Room: Virtual Room 2

- 11:10 Security Risk Assessment of Blockchain-based Patient Health Record Systems
Dr. Huwida E. Said, *Dr. Nedaa B. Al Barghuthi*, Dr. Sulafa Badi, Ms. Shini Giriya
- 11:35 A Review of Internet of Things (IoT) Forensics Frameworks and Models
Khalil Al-Hussaeni, Jarryd Brits, Meghna Praveen, Ioannis Karamitsos
- 12:00 Domain and Semantic Modeling in the context of Interactive Systems Development: User and System cases
Saulo Rodrigues e Silva, Orlando Belo
- 12:25 Cybersecurity and Information Quality in Cloud Computing: A research Framework.
Hongjiang Xu

12:50 - 13:00 Break session

13:00 - 15:05 Big Data, Analytics and Machine Learning

Chair: Lasse Berntzen

Room: [Virtual Room 1](#)

- 13:00 Applying Predictive Analytics Algorithms to Support Sales Volume Forecasting
Joerg H. Mayer, Milena Meinecke, Reiner Quick, Frank Kusterer, Patrick Kessler
- 13:25 AIOps in Higher Education Institutions
Thabo Sakasa, Tendani Mawela
- 13:50 Digital Content Profiling Based on User Engagement Features
Pawel Misiolek, Michał Ciesielczyk, Bartosz Rzycki
- 14:15 Big Data in the innovation process – a bibliometric analysis
Zornitsa Yordanova
- 14:40 A Sensor-based Unit for Diagnostics and Optimization of Solar Panel Installations
Lasse Berntzen, Saeed Teimourzadeh, Paula Anghelita, Qian Meng, Viorel Ursu

13:00 - 15:05 Artificial Intelligence

Chair: Nikos Bakas and Savvas Chatzichristofis

Room: [Virtual Room 2](#)

- 13:00 Next Generation Process Material Tracking and Analytics for the Process Industries Using Machine Learning Algorithms
Symon Doe, Christoforos Kassianides, Symeon Kassianides, *Nikos Bakas*, Christos Christodoulou
- 13:25 Identification of multiple sclerosis signals' dependence on patients' medical conditions through stochastic perturbation of features in five machine learning models
Spyros Lavdas, Nikos Bakas
- 13:50 How Blockchain and Artificial Intelligence influence Digital Sovereignty
Maximilian Greiner, *Martha Klare*, Lisa Verlande, Ulrike Lechner
- 14:15 Significance of Eco-Cement constituents to its mechanical properties, by Machine Learning Algorithms
Natia Anastasi, Nikos Bakas
- 14:40 The Concept of a New Neural Map for Clustering, Data Visualization and Prediction with Probability Distribution Approximation
Janusz Morajda

15:05 - 15:15 End of Day 1

Thursday, 22 Dec

9:00 - 9:15 Best paper awards

Chair: Maria Papadaki and Richard Kirkham

Room: [Virtual Room 1](#)

9:15 - 11:00 Blockchain Technology and Applications

Chair: Marinos Themistocleous, Klitos Christodoulou and Elias Iosif

Room: [Virtual Room 1](#)

9:15 Blockchain Governance - A Systematic Literature Review

Johannes Werner

9:40 A Distributed Multi-Key Generation protocol with a new complaint management strategy

Rym KALAI, Wafa NEJI, Narjes BEN RAJEB

10:05 EduCert – Blockchain-based management information system for issuing and validation of academic certificates

Antonio Trigo, Diogo Melim

10:30 The Importance of Blockchain for Ecomobility in Smart Cities: A Systematic Literature Review

Irenee Dondjio

9:15 - 11:00 Digital Governance

Chair: Evripidis Loukis, Yannis Charalambides and Charalambos Alexopoulos

Room: [Virtual Room 2](#)

9:15 Digital Solutions to What? - WPR as a model for public servants seeking a better grip on their local digitalization policy

Marcus Heidlund, Katarina L Gidlund

9:40 Designing an API for the provision of Public Service information based on CPSV-AP

Christos Pappis, Dimitris Zeginis, Efthimios Tambouris, Konstantinos Tarabanis

10:05 An AI-enhanced solution for large-scale deliberation mapping and explainable reasoning

Nikos Karacaplidis, Dimitris Tsakalidis, George Domalis

10:30 Concept for an open data ecosystem to build a powerful data environment

Larisa Hrustek, Renata Mekovec, Charalampos Alexopoulos

11:00 - 11:10 Break session

11:10 - 13:15 Management and Organisational Issues in Information Systems

Chair: Muhammad Kamal,

Room: [Virtual Room 1](#)

11:10 Towards Analytical Business Services as a New Business Model for Shared Service Centers

Joerg H. Mayer, Maurin Siegmund, Markus Esswein, Reiner Quick

11:35 Remote Working from a Management Perspective

Lea-Christin Hellwig, Matthias Murawski

12:00 Bibliometric analysis of publications on evacuation of Hazards using GIS as a decision support tool from the Scopus database

Atifa Mohammad Albalooshi, Khalifa Alebri, Maria Papadaki

12:25 A Bibliometric Analysis of Digital Transformation for a Resilient Organization

Hind Lootah, Juma Aldhaheeri, Maria Papadaki

12:50 Application for generating camouflages from satellite photographs
Aneta Poniszewska-Maranda, Krzysztof Stepien, Michal Suszek

11:10 - 13:15 Digital Services and Social Media

Chair: Irene Dondjio

Room: [Virtual Room 2](#)

11:10 The Importance of Platforms to achieve Digital Maturity
Tristan Thordsen, Markus Bick

11:35 The determinants of technology acceptance for social media messaging applications – fixed-effect questionnaire design
Pawel Robert Smolinski, Monika Mankowska, Barbara Pawlowska, Jacek Winiarski

12:00 Can Process Mining Detect Video Game Addiction Through Player's Character Class Behavior?
Deneckere Rébecca, Guenego Maxime

12:25 Conceptual Model of User Experience for Personalization
Elena Kornyshova, Eric Gressier-Soudan

12:50 Fairness Issues in Algorithmic Digital Marketing: Marketers' Perceptions
Veronika Pavlidou, Styliani Kleanthous, Jahna Otterbacher

13:15 - 13:25 Break session

13:25 - 15:05 Emerging Computing Technologies and Trends for Business Process Management (ECT4BPM)

Chair: Piotr Soja

Room: [Virtual Room 1](#)

13:25 Mining Contextual Process Models Using Sensors Data: a Case of Daily Activities in Smart Home
Ramona Elali, Elena Kornyshova, Rébecca Deneckère, Camille Salinesi

13:50 An Integrated Approach Using Robotic Process Automation and Artificial Intelligence as Disruptive Technology for Digital Transformation
Anderson Araujo, Henrique Mamede, Vitor Santos, Vítor Filipe

14:15 Modern warehouse and delivery object monitoring – safety, precision, and reliability in the context of the use the UWB technology
Krzysztof Hanzel

14:40 Business Process Automation in SMEs
Silvia Moreira, Henrique Mamede, Arnaldo Santos

13:25 - 15:05 Innovative Research Projects

Chair: Besart Hajrizi

Room: [Virtual Room 2](#)

13:25 Local Energy Markets: A Market Transformation Survey towards Segments of Interest
Evgenia Kapassa, Marios Touloupou

13:50 The effects of artificial intelligence in the process of recruiting candidates
Lasha Abuladze, Lumbardha Hasimi

14:15 Browser extension for detection of fake news and disinformation
Lumbardha Hasimi, Aneta Poniszewska-Maranda

15:05 - 15:15 End of the conference