March 09, 2022

15:30	<u>Opening session</u> Prof. António Godinho, President of ISLA Dr. Nuno Mateus-Coelho, Organization chair
15:45	<u>Keynote session: "Social Engineering, the heart of the attack"</u> Dr. Nuno Mateus-Coelho, IPGT – Polytechnic Institute of Management and Technology, Portugal

17:00 - 18:30	- A heuristic algorithm in project scheduling and project time optimization: through managing the size of the project buffer, feeding buffers, and resource buffers - Aggregate Production Planning and Scheduling in the Industry 4.0 Environment - Information systems' adoption in meta-organizations - Process automation in the area of manufacturability analysis using machine learning - Containerized edge architecture for manufacturing data analysis in Cyber-Physical Production Systems

17:00 - 18:30	- Researching creativity in Information System discipline - From User Requirements to Document Repository Enriched with Metadata – a Case Study - Analyzing the benefits of using a document repository to aid decision-making in the field of culture - Requirements Elicitation in ERP Implementation Process - ERP systems drive businesses towards growth and sustainability - Use of Ontologies in Product Information Management: A Proposal for a Multinational Engineering and Technology Company

18:30 - 20:00	Welcome cocktail

March 10, 2022

9:00 - 10:30	- IoT, Environmental Sustainability, Agricultural Supply Chains - Synthetic Demand Generation with Seasonality for Data Mining on a Data-Farmed Data Basis of a Two-Echelon Supply Chain - Evolution of Pick-by-Light Concepts for Assembly Workstations to improve the Efficiency in Industry 4.0 - Functional Safety as a critical success factor to industry 4.0 - How to leverage distributed data to create an HR 4.0 platform to support workforce management? A proposed solution based on three industrial contexts - Industry 4.0 in construction organization of a mega projects: a bibliometric analysis - Industrial Information Sharing 4.0

9:00 - 10:30	- Fault Injection for Linux Device Drivers on x86, MIPS and ARM Architectures - ChevroCrypto - Comparative Analysis Information Security Risk Management Models for Cloud Hosted Systems - Challenges to incorporate accountability into artificial intelligence - Impact of Information Security on Continuance Intention of Artificial Intelligence Assistant

9:00 - 10:30	- Industry 4.0: Predicting lead conversion opportunities with machine learning in small and medium sized companies - The Dilemma of Technology Leadership among Basic School Headmasters in Ghana. - Knowledge data extraction for business intelligence - A design science research approach - Some Interval-valued q-Rung Orthopair Power Average Operators and Group Decision Making Method - Production Scheduling Optimization enabled by Digital Cognitive Platform

	- Predicting how much a consumer is willing to pay for a bottle of wine: a preliminary study

Lobby

10:30 - 11:00	Coffee break

Room 7 - session A3 - Zoom link: https://bit.ly/3vHGwXs

11:00 - 12:30	- Synergy between smart cities and industry 4.0 in public spaces: bibliometric analysis - Fractional control in industry 4.0: a bibliometric analysis - Utilization of the Arena simulation software and Lean improvements in the management of metal surface treatment processes - Defining a Context Model for Smart Manufacturing - Buck-boost switched control without polarity reversal to regulate the production of direct current (DC-DC) in hybrid cars - Supply Chains in the Era of Digital Twins – A Review - Exploring System Quality Elements of Mobile Marketplace Application for Textile Cyberpreneurs

Room 8 - session B3 - Zoom link: https://bit.ly/3MtxQKq

11:00 - 12:30	- Refactoring Codes to Improve Software Security Requirements - Toward a Zero Trust Metric - A study of known layer-2 attacks and mitigation approaches - Targets of phishing attacks: The bigger fish to fry - Paranoid OS: Wearable Trackers

Room 9 - session C2 - Zoom link: https://bit.ly/3pAzNL2

11:00 - 12:30	- University technology transfer: Contacts and connections at the origin of licensing agreements - A deep learning model for detection of traffic events based on social networks publications - Approaching a regional innovation ecosystem in the Northern Black Forest for a future-orientated economy and society - The applicability of the St. Gallen Business Model Navigator for start-ups - The framework's strengths and limitations - The Reduction of Fragmentation in the Conduct of Online Distance Learning using my.eskwela - Duration models: determinants of research-based spin-offs survival - A qualitative analysis of frameworks for training through Serious Games

Hotel restaurant

12:30 - 14:00	Lunch

Room 7 - session A4 - Zoom link: https://bit.ly/3vHGwXs

14:00 - 15:30	- Optimizing the operator posture by a smart workplace design - Success Factor of Smart Factory: Moderating Role of Commitment to Learning - Consideration of problems from the characteristics of Japanese companies in the introduction of IT in the Japanese manufacturing industry - Device life cycle management requirements for identity and access management in the factory of future environment - Influence of Company Polycy towards Conditions for Engineering Change - Optimized in-vehicle multi person human body pose detection

Room 8 - session B4 - Zoom link: https://bit.ly/3MtxQKq

14:00 - 15:30	- Weave: a software for classifying images based on their descriptors using artificial neural networks - Recovery of signals and images using test measurements - Sentiment Analysis from Images using VGG19 based Transfer Learning Approach - BigGAN evaluation for the generation of vehicle interior images - A novel encoder-decoder network with guided transmission map for single image dehazing - An analysis of video-based human activity detection approaches - Detection and quantification of diseased leaves and weed using image processing and machine learning

Room 9 - session C3 - Zoom link: https://bit.ly/3pAzNL2

14:00 - 15:30	- Building a smart database for predictive maintenance in already implemented manufacturing systems - An Interval Type-2 Fuzzy Preference Method considering Borda Count for Supplier Selection - A comparison of unsupervised and supervised machine learning algorithms to predict water pollutions - River quality classification using different distances in k-nearest neighbors algorithm - Detecting fraudulent online Yelp reviews using K-L divergence and linguistic features - Job Profiles in the Field of Data-Driven Supply Chain Management - An Analysis of the Austrian Job Market

	- Digital Transformation for SMES in the Retail Industry

AUDITORIUM - Zoom link: https://bit.ly/35vmgO4

15:30 - 16:30	Keynote session: "Daring to Do Good Design Science Research" Prof. Alan Hevner, Distinguished University Professor and Eminent Scholar. School of Information Systems and Management Muma College of Business, University of South Florida
16:30 - 17:00	Coffee break

Meeting at the Hotel Lobby - bus to Ribeira, Porto

17:00 - 19:30	Douro cruise
19:30 - 22:00	Dinner at Porto Ribeira

March 11, 2022

Room 7 - session A5 - Zoom link: https://bit.ly/3vHGwXs

9:00 - 10:30	- Evaluation of maintenance management of a thermoplastic industry using maintenance maturity model - The effect of battery degradation on the route optimization of electric vehicles - Profitability concepts of non emission energy production aided by big data. - Fuzzy Logic Model for Failure Analysis in Electric Power Distribution Systems - Hierarchical Clustering of Power Models for circuits design - Solar Panel Hotspot Localization and Fault Classification using Deep Learning Approach - Data Science for Industry 4.0: A Literature Review on Open Design Approach

Room 8 - session B5 - Zoom link: https://bit.ly/3MtxQKq

9:00 - 10:30	- Automated Evaluation Tools for Web and Mobile Accessibility: proposal of a new adaptive interface tool - Semantic Segmentation on Smartphone Motion Sensor Data for Road Surface Monitoring - Essential Oil Plants Image Classification Using Xception Model - Interface and interaction design principles for Mixed Reality applications: the case of operator training in wire harness activities - Leather Defect Detection Using Semantic Segmentation: Hardware platform and software prototype - A Novel 3-D Clef Attractor System and a Systematic Approach for Wide Ranging Applications

Room 9 - session C4 - Zoom link: https://bit.ly/3pAzNL2

9:00 - 10:30	- The perspectives of current health professionals regarding their interaction with specific technology - Review and analysis of research on Video Games and Artificial Intelligence: a look back and a step forward - Evolution of Pick-by-Light Concepts for Assembly Workstations to improve the Efficiency in Industry 4.0 - From co-design to the construction of a metaverse for the promotion of cultural heritage and tourism: the case of Amiais - How Modeling Helps in Developing Self-Sovereign Identity Governance Framework: An Experience Report - Bouncing from the Covid-19 Pandemic: Response of an Online Medical Tourism Facilitator Platform

Lobby

10:30 - 11:00	Coffee break

Room 7 - session D1 - Zoom link: https://bit.ly/3vHGwXs

11:00 - 12:30	- A Novel COVID-19 Detection Model Based on DCGAN and Deep Transfer Learning - Investigation on Human activity recognition using Deep learning - An Enhanced System for Wrong Way Driving Vehicle Detection with Road Boundary Detection Algorithm - Analysis and modelling of a ML-based NIDS for IoT networks - How Modeling Helps in Developing Self-Sovereign Identity Governance Framework: An Experience Report - Multiclass data plane recovery using different recovery schemes in SDN: a simulation analysis - Review and analysis of research on Video Games and Artificial Intelligence: a look back and a step forward

Room 8 - session B6 - Zoom link: https://bit.ly/3MtxQKq

| 11:00 - 12:30 | - Classification of Diabetic Retinopathy from Color Fundus Images: A Neural Network Approach
- Artificial vision inspection system for anomaly detection in metal parts
- Fabric Hairiness Analysis for Quality Inspection of Pile Fabric Products Using Computer Vision Technology
- An Exalted Three Dimensional Image Encryption Model Availing a Novel Twin Attractor Chaotic System
- Impact of COVID-19 on Hospitality Industry and Responding to Future Pandemic through Technological Innovation
- SwinIR Transformer Applied for Medical Image Super-Resolution
- Data-Driven Carbohydrate Counting Accuracy Monitoring: A Personalized Approach |

Room 9 - session C5 - Zoom link: https://bit.ly/3pAzNL2

| 11:00 - 12:30 | - Sensory and Emotional Smart Cultural Tourism: a conceptual paper
- Assessment of organizational readiness for digital transformation in SMEs
- Corporate Websites and their Multilingual Dissemination. An analysis of Southern Spain Tourism Sector
- Managing Efficiency in Digital Transformation – EU Member States Performance during the COVID-19 Pandemic
- Assessing Consumer Enchantment to Guide Product Improvement: An Example with 'The Magic Train' Tourist Attraction
- A mobile game for enhancing Tourism and Cultural Heritage
- Gaming times four: How does customer participation shape consumer brand identification during the new product creation process - A conceptual model proposal |

Hotel restaurant

| 12:30 - 14:00 | Lunch |

Room 7 - session D2 - Zoom link: https://bit.ly/3vHGwXs

| 14:00 - 15:30 | - Prediction of football match results with Machine Learning
- Design and simulation of global model for carbon emission reduction using IoT and artificial intelligence
- Dynamic Enterprise Architecture planning using case based reasoning and blockchain
- Big Data Analytics for Vehicle Multisensory Anomalies Detection
- On analysis of face liveness detection mechanisms via deep learning models
- Explainable AI and Interpretable Machine Learning: A Case Study in Perspective
- Bringing Humans at the Epicenter of Artificial Intelligence: A Confluence of AI, HCI and Human Centered Computing |

Room 8 - session B7 - Zoom link: https://bit.ly/3MtxQKq

| 14:00 - 15:30 | - Circular Economy Public Policies: A Systematic Literature Review
- Strategy for the introduction of autonomous driving technologies: a case study in the logistics area of an automotive company
- Smart tourism in Villages: Challenges and the Alpujarra Case Study
- Decision-Making lifecycle of the Bid Process Information System
- Data Analytics in the Game of Cricket: A Novel Paradigm
- Comparative Analysis of Machine Learning Algorithms for Analyzing NASA Kepler Mission Data |

Room 9 - session C6 - Zoom link: https://bit.ly/3pAzNL2

| 14:00 - 15:30 | - Women entrepreneurs in Tunisia within the context of the covid-19: Constraints, Dilemmas and Resilience behavior
- Robotic Process Automation as an enabler of Industry 4.0 to eliminate the eighth waste: a study on better usage of human talent
- Correlation and Prediction for the Portuguese Tourism Sector Leveraged by Google Trends Data
- Student´s Entrepreneurial Intention in Higher Education at ISLA – Instituto Politécnico de Gestão e Tecnologia
- Marketing Mix and New Product Diffusion Models
- Occupational Safety & Ergonomics training of Future Industrial Engineers: a Project-Based Learning Approach |

AUDITORIUM - Zoom link: https://bit.ly/35vmgO4

| 15:30 - 16:30 | Keynote session: "The Dynamics of Cybersecurity"

Prof. Erol Gelenbe, Institute of Theoretical and Applied Informatics, Polish Academy of Sciences, CNRS I3S, University Cote d'Azur (Nice) & Lab. Abraham de Moivre, Imperial College |
| 16:30 | Farewell cocktail |