TECHANICAL PROGRAMME

	09/12/2024			10/12/2024			11/12/2024	
08:30 - 17:00	Onsite -registration			Onsite - registration			ONLINE	
9:15-9:30				Keynote 2: Prof. Nabil Abdennadher Towards a decentralised Federated Learning based edge-to-edge Continuum Computing framework.			Session 13 SNAMS (ONLINE)	Session 14 GCET (ONLINE)
9:30-10:00	Opening & Welcome							
10:00-11:00	Keynote 1: Prof. Francesco Falcone: Wireless Systems for Communication and Sensing in Cognitive Cities			Keynote 3: Professor Timothy Jung AI-powered XR: Redefining the Future of Software-Defined Systems				
11:00-11:20	Coffee Break			Coffee Break			Session 15 GCET (ONLINE)	Session 16 SNAMS (ONLINE)
11:20: - 13:00	Session 1 -- GCET	Session 2 -- SNAMS	Session 3 SDS (ONLINE)	Session 7 GCET	Session 8 SNAMS	Session 9 SDS (ONLINE)		
13:00-14:00	Lunch			lunch			Conference Closing	
14:00: 16:00	Session 4 SNAMS	Session 5 SDS	Session 6 GCET (ONLINE)	Session 10 GCET	Session 11 SDS	Session 12 SNAMS (ONLINE)	Session 17 GCET (ONLINE)	Session 15 GCET (ONLINE)
16:00-17:00	Coffee Break & Networking			Coffee Break & networking				
				Gala Dinner and Awards - 19:30: to 22:30				

Monday 9th December 2024		
08:00 - 17:00	Onsite registration	
09:30-10:00	Opening & Welcome	
10:00 – 10:45	**Keynote Speaker:** Prof. Francesco Falcone: Wireless Systems for Communication and Sensing in Cognitive Cities **Chair:** Sandra Sendra	
10:45-11:15	Coffee break	
11:15 - 13:00	Session 1	**Chair: Sandra Sendra** • 7432: Disturbance-Storm Time Index Forecasting: A Comparative Analysis of Time Distributed CNN and Bi-LSTM Models in Geomagnetic Storm Prediction • 6825 Edge-based IoT Image Processing System for Detecting Changes in Leaves • 3187: The Relevance of Cyber Diplomacy to Arguments about National Cyber Power • 9404: Blockchain-AI Integration for Resilient Real-time Cyber Security Artificial Intelligence and Machine Learning • 1753: Refining and generalising ethical guidelines for digital Extended Reality (XR) and Artificial Intelligence (AI): a participatory approach including experts' and publics' views
11:15 - 13:00	Session 2	**Chair: Elhadj Benkhelifa** • 0750: Modeling the influence of social networks on Crowdfunding projects • 3121: Social Media Bot Policies: Evaluating Passive and Active Enforcement • 6226: An Interpretable Fine-Tuned BERT Approach for Phishing URLs Detection: A Superior Alternative to Feature Engineering • 6325: A Pipeline for the Analysis of User Interactions in YouTube Comments: a Hybridization of LLMs and Rule-based Methods • 7698: Exposure and Adoption of Social Dimensions During the Ukraine War
11:15 - 13:30	**Session 3 (Online)**	**Chair: Tamara Zhukabayeva: --** • 1851: ANALYZING AUTOMATIC CODE GENERATION FOR LEARNING MODELS IN GENERATIVE AI • 3869: Balancing Usability and Protection in AI and Data Security: A Human-Centric Approach • 0532: A Novel Model for Digital Twins in Mental Health: The Biopsychosocial AI-Driven Digital Twin (BADT) Framework • 1694: Mitigating Security Vulnerabilities in Offline USSD Payments in non-Smartphones • 3878: Integrating Digital Twins in Supply Chain Management Education • 2951: Architecting a SDS for Microservices-based Distributed Edge Computing Systems • 4361: A Robust Federated Deep Learning-Based Framework to Mitigate Routing Attacks in Flying Ad Hoc Networks
13:00 - 14:00	**LUNCH (Onsite)**	
14:00 - 16:00	Session 4	**Chair: Abdelkader Berrouachedi** • 6944: A Novel Approach to Person-Job Fit Using Outlier Detection • 9409: Towards Supporting Penetration Testing Education with Large Language Models: an Evaluation and Comparison • 1634: Promoting security and trust on social networks: Explainable cyberbullying detection using Large Language Models in a stream-based Machine Learning framework • 0070: The Limits of Influence Maximisation in Online Social Networks
14:00 - 16:00	Session 5	**Chair: Jaime Lloret** • 1410 Unsupervised DDoS Detection Using Entropy Features and f-AnoGAN in SDN • 6891: Towards a Real Vehicular Data Cloud • 9962: Security Authentication on the Edge: A Step Further to Defense in Depth for IoBT • 6351: Towards a Resilient Multi-Agent Controller: Securing and Mitigating Overhead in Tactical SDN • 9896: Resilient Software Defined Satellite Networks: Combining Clustering Techniques with Efficient Routing Protocols • 8641: Towards a Metamorphic Testing Architecture for Software-Defined Drone Systems.

14:00 - 16:00	**Session 6** **(Online)**	**Chair: Susana Cláudia Nicola de Araújo** • 7467 Challenges in Logistics within the Medical 4.0 Environment: A DEMETAL Approach • 8947 Energy-Efficient Prediction of Hourly Energy Consumption in Fog/Edge Computing Using Optimized Artificial Neural Networks • 4045 Exploring the Impact of Robotic Process Automation and Artificial Intelligence Technologies on the Auditing Profession • 3755 Multi-criteria based virtual SaaS Selection in Cloud Environment • 6828 An Enhanced Toponymic Distance for Semantic Analysis in Geographic Information Network • 6355 AI Governance: A General Perspective • 0328: Training needs assessment for the design of healthcare digital transformation courses in EU
16:00- 17:00		**Coffee break & Networking**

	Tuesday 10th December 2024	
09:15 – 10:00	**Keynote Speaker 2:** Prof. Nabil Abdennadher Towards a decentralised Federated Learning based edge-to-edge Continuum Computing framework. **Chair:** Jaime Lloret	
10:00- 10:45	**Keynote Speaker 3**: Professor Timothy Jung AI-powered XR: Redefining the Future of Software-Defined Systems **Chair:** Elhadj Benkhelifa	
10:45- 11:05	Coffee Break	
11:05 - 13:00	Session 7	**Chair: Sandra Sendra** • 1869: A Smart Train Seat Recommendation Mobile Platform based on Personal Interests and Social Preferences using Data Science and Artificial Intelligence • 0287: Insight generation and complex datasets analysis with LLMs in AdTech • 4460: An OLAP Internal/External Cube Recommendation Approach based on Artificial Intelligence Techniques • 3233: Arabic fake news detection using CNN and fuzzy logic Artificial Intelligence and Machine Learning • 1308 Multi-Objective Reinforcement Learning for QoS-Aware Optimization of Multi-Cloud IoT Service Selection
11:05- 13:00	Session 8	**Chair: Elhadj Benkhelifa** • 0454: Mapping Twitter Activity in the 2019 Ukrainian Political Landscape • 7636: Real-time personalized detection of cyberbullying and online harassment in social networks using Jetson Nano • 9383: Applying Social Networks to Snowball Sampling of a `Hard-to-Reach' Population and to Illustrate Qualitative Findings • 9115: Artificial Intelligence in Mental Health Care: The T5 Chatbot Project • 9826: Disentangling Disparate Communication Streams and Recovering Underlying Structure • 5450: Understanding Trust in Authentication Methods for Icelandic Digital Public Services
11:05- 13:00	**Session 9** **(ONLINE**	**Chair: Haythem Bany Salameh** • 5849: Enhancing Domain Name System Security: An Approach Inspired by RAID Technology • 3318: Optimizing Microservices Architecture: A Comprehensive Study on Resolving Complexity in Billing Systems • 6390: A Decision Tree-based Spectrum Sensing Approach in IoT-based Software-Defined Networks • 5685: Advancing IoT Security: A Review of Intrusion Detection Systems Challenges and Emerging Solutions • 7107: A Review on the Overall Performance of SDN Controllers • 8443: An Optimized SDN Framework for the Internet of Things • 0840: A discovery portal for smart health-related data exploration and management based on a hybrid Service-and-Data-Oriented Architecture • 5475: Navigating the Newscape: Long Short-Term Memory Models for Misinformation Detection

13:00 - 14:00		**LUNCH (ONSITE)**
14:00 - 16:00	Session 10	**Chair: Abdelkader Berrouachdi** • 2472: Optimal Portfolio and Trading Strategy Using Machine Learning techniques • 5378: Quantitative Review of Conversational Agents in E-Health Using NLP and AI • 6385: An Integrated Edge Computing Framework for Enhancing Cyber-Physical System Security through Network Traffic Anomaly Detection in Industrial IoT • 4216: Formal Analysis of E-Payment System based on 3-D Secure in Social Payment Environment • 8407: Penetration Testing-Aware IDS for Wireless Networks in Urban Digital Ecosystems Integrated with Edge Computing and Machine Learning
14:00 - 16:00	Session 11	**Chair: Jaime Lloret** • 6795: Software-defined Support for the Execution of Task-graph-based Applications on Cloud Environments • 2458: Integrating AEAD Ciphers into Software-Defined-Storage Systems • 0873: Toward Automating Cooja Experiment Workflows for Dataset Generation • 4935: Holon Programming Model: A Software-Defined Approach for System of Systems • 1103 Explainable AI Feature Selection in Generative Adversarial Networks System aiming to detect DDoS Attacks
14:00 - 16:20	**Session 12 (ONLINE)**	**Chair: Leonidas Boutsikaris** • 5008: Bridging the Gap: Enhancing Entrepreneurship Education in Jordanian Universities • 2901: A Personalised Adaptive Intervention Framework to Tackle Misinformation and Disinformation on Social Media • 3522: AI-Based Working Memory Training to Reduce Reading Disabilities in Primary Students • 4771: Beyond Binary Opinions: A Multidimensional Approach for Quantifying Opinion Diversity in Communities • 2452: LEARNING BASED ON GENERATIVE AI WITH IMAGE SYNTHESIS AND DATA AUGMENTATION TECHNIQUES • 2774: Postgraduate Students' Perceptions of the Benefits and Challenges of Utilizing Artificial Intelligence to Promote Academic Success • 7195: Privacy and Data Protection on Social Network Sites as Driver of Social Integration
16:00 - 16:45		**Coffee break/Networking**
19:30- 22:30		**Gala Dinner & and Awards**
		Wednesday 11th December 2024 (ONLINE)
09:00- 11:00	Session 13 **(ONLINE)**	**Chair: Payiri Gregoire Wenceslas ZOMBRE** https://us06web.zoom.us/j/81549826186?pwd=wOIuWgmwRTtzDhux18C8fMbTbV8tsP.1 • 9987: Cross-analysis of opinions on social media in the context of high security challenge • 6655 Social Media Use in Journalism and Education Mediated by Personal Integrative Needs • 9870: Enhancing Selective Attention of Students with Learning Disabilities Through an AI-Based Strategy • 6023: Generational Responses to Athlete Activism: The Role of Digital Identity and Consumer Purchase Intent • 9688: Education Students' Attitudes Towards Social Media Networks

		• 3847 Leveraging Sentiment and Emotion Analysis to Enhance Cyberbullying Detection • 6557: A Systematic Literature Review of Security and Privacy Solutions for the Metaverse
09:00-11:00	Session 14 **(ONLINE)**	**Chair: Majed ElSaleh** **Join the meeting now** • 0991 A Systematic Review of the Transformative Role of Virtual Reality in Physics Education • 2170 An Insight into Uses, Benefits and Challenges of Integrating AI in Early Childhood Education • 8683: A WYSIWYG Document Editor to Solve the Issue of Writing Documents with Math Elements and Avoid the Steep Learning Curve of a Plain LaTeX Editor • 3336 The Influence of Participatory Video in Enhancing Arabic Speaking Skills: A Case Study of Students in the United Arab Emirates • 8638 The impact of utilizing the SKLZ Cam application for real-time feedback on the speed at beginners in judo Ukemi techniques • 9276 Teachers' Perspective on the Role of the Internet of Things (IoT) in Education • 6985 Exploring the Students' Perceptions of the Effectiveness of Using E-Learning Platforms on Learning Programming Languages (LPL) Related to Student Attitude, Performance, and Satisfaction During and Post-Covid-19 Global Crisis
11:00 - 13:00	Session 15 **(ONLINE)**	**Chair: Mohamed Heydari** **Join the meeting now** • 0417 Designing Novel Trust Models: Merging Psychological Insights with Machine Learning to Enhance AI User Trust • 7148 ENHANCING METAVERSE CYBERSECURITY WITH FEDERATED LEARNING • 8899: Evaluating Large Language Models Versus Traditional Tools in SQL Injection Exploit Generation • 2200 Enhancing Business Performance Through Data-Driven Digital Marketing and Big Data Capabilities • 4178 Perceptions on Digital Transformation: Leadership Position versus Organizational Size • 0761: Evaluating Large Language Models Versus Traditional Tools in OS Command Injection Exploit Generation • 6655: Analysis of Industry 4.0 adoption challenges in medium size brewery from engineering complex systems perspective
11:00 - 13:00	Session 16 **(ONLINE)**	**Chair: Haythem Bany Salameh** **Join the meeting now** • 8150: The Status of Individual and Group Identities in Networked Societies • 6901 Optimizing Transfer Learning Techniques for Sentiment Polarity Detection in Retail Reviews • 5112: A Critical Review of Digital Marketing for Organization: Challenges and Opportunities • 5925: Multilingual Hate Speech Detection Using Transformer-Based Deep Learning Approaches • 4390: Using Digital Surveillance to Improve PR Strategies: Strengthening Trust, Media Relations, and Crisis Communication in the UAE • 2426: A Novel Reinforcement Learning Model for Post-Incident Malware Investigations • 2472: Optimal Portfolio and Trading Strategy Using Machine Learning techniques
13:00-14:00	Break	
14:00-16:00	Session 17 Online	**Chair: Haroon Mahmood** **Join the meeting now** • 1217 Quantum Computing and Password Security: Applying Grover's Algorithm and QRNG with Qiskit7 • 2639 Optimized Charging Station Deployment for Enhanced Detection Efficiency in RL-based UAV Target Tracking Systems • 9439 Influence of infill density on the mechanical behaviour of additively manufactured thermoplastic polyurethane • 5852 On The Minsum Decoding Algorithm For The 5G NR LDPC Codes • 6255 Integrating Flying Taxis: Dubai's Pioneering Efforts • 6797 Optimized Coverage of Urban Territory for Traffic Surveillance using Multiple UAVs

		• 1775: A Machine Learning-assisted Game Theoretical Service Selection Strategy in UAV Networks
14:00-16:00	Session 18 Online	**Chair: Khalaf Tahat** **Join the meeting now** • 5751 IT Readiness and Blockchain Analytics as Mediators in the Relationship between Business Intelligence and Market Performance of SMEs in the UAE • 8166: Real-Time Sign Language to Speech Recognition System for BSL • 6666 THE IMPACT OF AI ON ACCOUNTING TECHNOLOGY ADOPTION THE MEDIATE ROLE OF BUSINESS PERFORMANCE • 7609 Leveraging K-Means Clustering for Analysis of Arabic Hate Speech Tweets • 8162: Mindful Eating and Impact of Physical Activity on Weight Management using Mobile Application • 5162 A Strategic Localisation Model for India • 6048: Preventing Facebook from Being Used for Defamation, Doxing, Impersonation, Threats of Violence, and Intimate Images
		Conference ENDS

KEYNOTE SPEAKERS

1. **Prof. Francisco Falcone, Universidad Publica de Navarra, UPNA, Spain**
2. **Prof. Nabil Abdennadher, University of Applied Sciences, Western Switzerland**
3. **Prof. Timothy Jung, Manchester Metropolitan University, UK -**