


		16th International Conference on Software, Knowledge, Information Management & Applications (SKIMA) (Technically Co-Sponsored by IEEE Computer Society) 9-11 June 2025, University of the West of Scotland, Paisley, UK		
		Day 1: 09/06/2025		
		Track 1: AI & Machine Learning: Foundations and Advanced Applications Room: 118	Track 2: IoT, Robotics, and Intelligent Automation Systems Room: 114	Track 3: Software Systems, Digital Transformation, and Industrial Data Science Room: 116
9:00-9:20	P1123/125	Registration and Coffee		
9:20-10:20	P118	Conference Opening Address Prof Dahal, Pof MacIntosh (VP Research and Innovation), Prof Morison (Dean School of CEPS), Prof Smith (ADRI School of CEPS), Dr Gilardi		
10:20-11:20	Session 1	Chair: Prof Alamgir Hossain 6. Online Active Learning For LSTM-Based Network Traffic Prediction 8. Leveraging Machine Learning for Enhanced Bug Triaging in Open-Source Software Projects 13. Ripple Effect of Data Bias in Intelligent Data-Driven Support Systems	Chair: Dr. Subrata Dutta 9. IoT based Irrigation Monitoring and Management System for Precision Farming 29. Accurate and Efficient Solid Waste Recognition: A Novel Approach Using Google Teachable Machine Based on Convolutional Neural Network (CNN) 38. Machine Learning Approaches for Anomaly Detection in IoT Networks: A Survey	Chair: Dr Santiago Matalonga 7. Smoothing the Transit Centers Operations of Vegetable Supply Chain using Mixed Integer Programming and Simulation Techniques: Sri Lankan Case Study 12. Empirical Software Risk Calculation With Software Risk Factors 14. IT Governance Mechanism Pattern Catalogue For Small Businesses to Support Digital Transformation Journey
11:20-11:40	P123/P125	Coffee		
11:40 - 12:40	Session 2	Chair: Dr Graham Parsonage 24. Automated Generative AI-Driven Forensic Analysis (AGAFA). An Explainable Neuro-Symbolic Approach to Digital Forensics 25. CounselAI: Transforming Career Counseling with Gen AI for Personalized Multilingual Guidance	Chair: Dr Pablo Salva Garcia 40. Test Case design for Context-Aware Autonomous vehicles: An in-silico experiment to observe the effects of unknown-knowns in test cases 46. CNN-Based ResNet-101: A High-Accuracy Quality Control Inspection Approach for Industrial Applications in Liquid Spreading on Skin-Mimic Substrates 48. Deep Learning-Based Anomaly Detection Method for Enhancing IoT Security	Chair: Prof Pablo Casaseca 21. Emerging Construction Technologies: Implementation Challenges and Processes in the U.S. 27. Artificial Intelligence for Supply Chain Sustainability: A Research Roadmap 33. TOGAF for Design of Emergency Management Systems: Optimizing ORCON Performance Metrics
12:40 - 1:40	P121 P123/P125	Lunch		
1:40-2:40	P118	Chair: Keshav Keynote Speaker - Dr. Nopasit Chakpitak Title: Digital Transformation in Aerospace Industry		
2:40-3:40	Session 3	Chair: Dr Tahir Mahmood 37. Deep Learning for Turbojet Engine Prognostics: Evaluating RNN and Transformer-Based Models for EGT Forecasting 41. Adaptive Knowledge Representation with KERAIA: A Naval Warfare Case Study	Chair: Prof Nejib Moalla 52. A Non-Intrusive and Cost-Effective IoT-Based System for Smart Monitoring of Power Consumption 53. Automatic License Plate Recognition using Machine Learning for law enforcement applications	Chair: Dr Zoltan Szabo 39. Workflow Optimization Using Hybrid Methodologies for Mitigating Overtasking 45. Comparative Review of Algorithms in Vehicle Routing and Rail Container Service Scheduling Problem 59. The State of Digital Transformation Amongst Hungarian Companies
3:40-4:00	P123/P125	Coffee		
4:00-5:00	Session 4	Chair: Dr Antesar Shabut 65. Soft Skills in Career Prediction: A Machine Learning Approach for Role Forecasting 69. Integrating Sensor Data and Machine Learning for Enhanced ADL and Fall Detection Systems	Chair: Dr Ravi Koriala 55. Real-time Traffic Monitoring and Helmet Violation Detection Using YOLOv8: A Deep Learning Approach for Automated Enforcement 64. Vision-Guided Robotic System for Automated Waste Sorting	Chair: Dr Peter Feher 60. The contribution of process mining in the environmental sustainability of IT 71. Development of an Automated Pill Dispenser Utilizing Image Processing 73. Developing an Exercise Monitoring Dashboard Prototype through Joint Application Design
05:00		Day End		

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		Day 2: 10/06/2025		
		Track 4: AI in Healthcare, Bioinformatics, and Assistive Technologies Room: 118	Track 5: Immersive Technologies, HCI, UX, and Digital Media Room: 114	Track 6: Cybersecurity, Blockchain, and Data Governance Room: 116
9:00-9:20	P123/125	Coffee, Arrival and Networking		
9:20-10:20	P118	Chair: Marco - Keynote Speaker - Professor Naeem Ramzan Title: From Emotion Recognition to Biometric Identification through Physiological Signals		
10:20-11:20	Session 1	Chair: Dr Ingrid Rügge 4. ST-GCN based Model for Predicting Daily Asthma Symptoms Using Passive Monitoring Data 10. Collaborative, autonomous, and partially selfish agents: An innovative approach to managing crisis decisions in a hospital merger 22. Emergency Care System using Deep Learning for People with Disabilities in Cambodia	Chair: Dr Ray Holder 18. A Web-Based Virtual Tours System for Cultural Heritage: The Case Study of the 'Cutty Sark' 11. Thermal Haptic for Virtual Reality: A Review 56. Enhancing Web3D Accessibility in Cultural Heritage: An Eye-Controlled 3D Model View	Chair: Prof Michael Moehring 15. Introducing hybrid threats and composite vulnerabilities to increase security in building automation 17. Promoting digital literacy, online safety, and Information Security Awareness (ISA) in the Scottish public sector: A thematic content analysis of cyber resilience frameworks 20. Implementation issues of using the new state-issued universal personal identifier by third parties in Hungary
11:20-11:40	P123/125	Coffee		
11:40 - 12:40	Session 2	Chair: Dr Teresa Gonçalves 26. Enhancing Digital Health Literacy of Village Health Volunteers through Vocational Training Programs 68. Design and Validation of Data Glove with Flex Sensor and 9-Axis IMU to Assess Hand Dexterity 23. HollarithProfitML: A Prototype to support the use and comprehensibility of AI for SMEs	Chair: Dr Soheeb Khan 43. Guidelines for Immersive Serious Games Design 19. A User Study on Deaf Individuals in VR Social Spaces - The Emergence of the VR Sign Language 42. A Systematic Literature Review Exploring AI's Role in Enhancing Real-Time Holographic Communication	Chair: Dr Kevin N'Da 28. Leveraging Knowledge Graphs for Analysing Human Vulnerabilities in Phishing Attacks 32. Integrating Blockchain with LLM for Real-Time Insight into Transactions in an E-Auction System 47. Investigation of advancing LLMs model for smart contract vulnerabilities detection
12:40 - 1:40	P121 P123/125	Lunch		
1:40-2:40	P118	Chair: Marco - Keynote Speaker - Dr Ray Holder Title: No app, no hardware, no limits...WebXR		
2:40-3:40	Session 3	Chair: Dr Sajad Bagheri 44. Exploring the need of a Responsible AI Framework for Healthcare: Key Considerations for Developing Countries. 63. Integrating Digital Biomarkers with Feedback-Driven Clustering for Optimized CPAP Adherence in OSA Management 66. Enhanced Human Activity Recognition (E-HAR): Leveraging Sensor Fusion, Placement and	Chair: Dr Parag Vichare 54. Enhancing Digital Marketing with Causal Machine Learning: Insights from Social Media Engagement in Textile Circularity r 62. A study of the development framework followed to integrate the Shopify SDK in an iOS app, built using SwiftUI 67. 5G MPN Design and Deployment: Challenges and opportunities for Industrial Use Cases	Chair: Dr Paul Keir 61. An Ontology-Based Approach for Context-Aware Automotive Security 70. Economic assessment review for adapting 5G MPN technology in aerospace sector
3:40-4:00	P123/125	Coffee		
4:00-4:30	P118	Conference Closing Address		
5pm-8pm		Conference Dinner Venue: "Shuttle" - 7 Shuttle St, Paisley PA1 1YD		

		Day 3: 11/06/2025
9am-5pm		<p>Conference Trip:</p> <p>We will experience two of Scotland's most iconic landmarks The Kelpies and Stirling. We will depart from UWS Paisley Campus at 9:00 AM.</p> <p>Our first stop will be The Kelpies (approx. 1.5 hours). These breathtaking 30-metre-high steel horse-head sculptures are a modern marvel, celebrating Scotland's rich industrial heritage and mythological folklore. Witness their impressive scale and artistry at The Helix parkland.</p> <p>We will then continue to the historic city of Stirling (approx. 4 hours). After a short walking tour of the city, you will have time for lunch (not included), shopping, or explore the majestic Stirling Castle, once a royal epicentre, wander through the charming Old Town, visit the Stirling Jail, or experience the Stirling Distillery. (Tickets to attractions not provided - if you plan to visit any of the sites we reccomend pre-booking online for cheaper tickets).</p> <p>From Stirling we will head back to UWS Paisley Campus</p>