

# 6<sup>th</sup> International Conference on Computing, Electronics & Communications Engineering (iCCECE '23)

14<sup>th</sup> – 16<sup>th</sup> August, 2023

University of Wales Trinity St. David, UK

## iCCECE '23 Conference Programme

Day 1: 14<sup>th</sup> August 2023, Monday

Time	Session	Session Details		
08:30-09:00	Registration and Breakfast			
09:00-09:20	Opening	Welcome address and presentation of conference statistics by the conference chairs - Dr Maaruf Ali; Welcome address by Associate Professor Dr Carlene Campbell		
09:20-10:20	Keynote Speech	Professor Andrew Penaluna, Emeritus Professor of Creative Entrepreneurship and Professor Kathryn Penaluna - Head of Enterprise and Director of International Institute for Creative Entrepreneurial Development, UK.		
10:20-11:20	Keynote Speech	Professor Heba Kurdi, Professor of distributed artificial intelligence, King Saud University, KSA		
11:20-11:40	Mid-morning Refreshment and Networking			
11:40-12:40	Track-1: Electrical Engineering and Vehicular Technology, Session Chair: Dr. Maaruf Ali			
	Time	Paper ID	Presenting Author	Paper Title
	11:40-12:00	26	Chi-Hung Wei	An Application-Aware Clustering Strategy in Vehicular Ad Hoc Network
	12:00-12:20	52	Mohammad Monfared & Hamed Rezazadeh	Single-phase Grid-forming Inverters: A Review
12:20-12:40	3	Mohammad Arif Sobhan Bhuiyan	Prospective Phase Frequency Detector Design Architectures for RF Transceiver Applications	
12:40-14:00	Lunch Break			
14:00-15:20	Track-2: Pervasive Computing and Internet of Things (IoT), Session Chair: Dr. Mahdi Miraz			
	Time	Paper ID	Presenting Author	Paper Title

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	14:00-14:20	16	Yong Yue	Design and Development of Multi-terminal USV Remote Control System Based on LoRa WAN
	14:20-14:40	11	Mihai Penica/ Mangolika Bhattacharya	Adaptable Decision Making Chatbot System: Unlocking Interoperability in Smart Manufacturing
	14:40-15:00	15	Libin Ma	State estimation of complex networks with time-varying delays and model uncertainty based on graph neural network
	15:00-15:20	18	Manoj Kollam	Earthquake Forecasting Using Optimized Levenberg–Marquardt Back-Propagation Neural Network
<b>15:20-15:40</b>	<b>Afternoon Refreshments and Networking</b>			
<b>15:40-16:40</b>	<b>Track-2 (Continued): Pervasive Computing and Internet of Things (IoT), Session Chair: Dr. Mahdi Miraz</b>			
	<b>Time</b>	<b>Paper ID</b>	<b>Presenting Author</b>	<b>Paper Title</b>
	15:30-16:00	20	Shang Li	Energy Sustainability Analysis of Data Center Based on Double Cycle System with Air Free Cooling Technology
	16:00-16:20	37	Hesham Elzouka	Secure Energy-efficient Clustering Protocol for Life Time Maximization in Smart Sensor Networks
	16:20-16:40	9	Tasfia Nuzhat Anny	A Framework for Identifying the Learners' Engagement in E-learning Environments Using a Hybrid CNN Architecture
<b>17:00-19:00</b>	<b>Guided Tour</b>			
<b>19:30-21:30</b>	<b>Conference Prestige Dinner Venue: Village Hotel</b>			

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Day 2: 15<sup>th</sup> August 2023, Tuesday

Time	Session	Session Details		
08:30-09:00	Registration and Breakfast			
09:00-09:40	Professor Marc Pilkington, The history of corporate voting from 19th century to modern DLT solutions			
09:40-10:20	Keynote Speech	Professor Shafiullah Khan, Professor of Computing, Kohat University of Science and Technology, Pakistan.		
10:20-10:40	Mid-morning Refreshment and Networking			
10:40-12:00	Track-3: Control Systems, Session Chair: Dr. Terry Walcott			
	Time	Paper ID	Presenting Author	Paper Title
	10:40-11:00	33	Can Wang	Adaptive Notch Filter Design of a Single-Link Flexible Manipulator based on System Identification
	11:00-11:20	36	Guan Chen	Vibration Suppression in a Two-Mass Drive System Using Three Input Shaping—Comparative Study
	11:20-11:40	38	Ao Wu	Research on Adaptive Impedance Control of Robot Manipulator Based on a New Improved Particle Swarm Optimization Algorithm
	11:40-12:00	39	Leon (Hua-Liang) Wei	Assessing Uncertainty in Space Weather Forecasting Using Quantile Regression, Complex Nonlinear Systems Identification and Modelling Techniques
12:00-13:00	Lunch			
13:00-15:00	Track-4: Computing and IT, Session Chair: Mr. Odayne Haughton			
	Time	Paper ID	Presenting Author	Paper Title
	13:00-13:20	44	Hasan K. Ahmed /Terry H. Walcott	The role of chatbots in Industry 4.0
13:20-13:40	48	Tea Osmeni/ Maaruf Ali	Hands-on Risk Management Scepticism	

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	13:40-14:00	10	Iftekhar Salam	Impact of Fuzziness for Skin Lesion Classification with Transformer-Based Model
	14:00-14:20	13	Ahmed Altamimi	Effectiveness of ChatGPT in Essay Autograding
	14:20-14:40	21	Deexith Reddy	Data Engineering Challenges in AI Automation
	14:40-15:00	40	Alba Meca	Applications of Deep Learning to Magnetic Resonance Imaging
<b>15:00-15:20</b>	<b>Afternoon Refreshments and Networking</b>			
<b>15:20-17:40</b>	<b>Track-4 (Continued): Computing and IT, Session Chair: Dr. Nik Whitehead</b>			
	<b>Time</b>	<b>Paper ID</b>	<b>Presenting Author</b>	<b>Paper Title</b>
	15:20-15:40	45	Shubhi Pushkarna/ Terry H.Walcott	Managerial Budget Improvements using Data Analytics
	15:40-16:00	66	Rea Bitri/ Maaruf Ali	Advances in Optical Metrology: The Impact of Deep Learning and Quantum Photonics
	16:00-16:20	28	Bisni Fahad Mon	A Study on Role of Artificial Intelligence in Education
	16:20-16:40	41	Xhoena Polisi	Evaluation of Cell Segmentation Using Pruning and Quantization
	16:40-17:00	42	Xhoena Polisi	Two stage unsupervised classification of cell health
	17:00-17:20	43	Arwah Alsaad	Governmental Data Governance Frameworks: A Systematic Literature Review
	17:20-17:40	47	Xhelal Jashari	Assessment of Digital Proqraming Skills based on the Competencies Model
<b>17:40</b>	<b>End of Day 2</b>			

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## Day 3: 16<sup>th</sup> August 2023, Wednesday (Post-Graduate Forum)

Time	Session	Session Details		
08:30-09:00	Registration and Breakfast			
PG Forum, Session Chair: Mr. Odayne Haughton				
09:00-09:30	Keynote Speech	Associate Professor Nik Whitehead, in Applied Computing, University of Wales Trinity Saint David		
09:30-10:00	Time	Paper ID	Presenting Author	Paper Title
	09:30-09:45	55	Zhiqi Lu	Research on network security protection strategy for computer network reliability analysis
	09:45-10:00	62	Xiangyu Dong	A new approach to XR Education: Student-centred Learning and Gamification in Electric Power Training
	10:00-10:30	Mid-morning Refreshment and Networking		
Session Chair: Mr. Simon Thomas				
10:30-11:00	Keynote Speech	Dr. Malcolm Maclean, Head of Doctoral Supervisory Pool, Doctoral College, University of Wales Trinity Saint David		
11:00-13:10	11:00-11:15	61	Oluwadamilola Aboderin	Flexible Working in Project Management: Enhancing and Sustaining Team Cohesiveness for Efficient Performance
	11:15-11:30	70	Pranav Gupta	Sustainable Water-Energy Nexus in Educational Establishments – The Case of India
	11:30-11:45	65	Mahamood Lidheem	Investigating EMV CHIP and PIN CARD SECURITY
	11:45-12:00	58	Thomas Bennett	Security Vulnerabilities in Operational Technology Networks
	12:00-01:00	Lunch		
Session Chair: Mr. Mahesh Kannath				
13:00-13:30	Keynote Speech	Dr Sachna Monga, Technology Consultant for Several UK Based Companies		
13:30-15:15	13:30-13:45	60	Prof. Bekim Fetaji	Investigating Challenges of Conversational AI: A survey
	13:45-14:00	72	Anxhela Gjecka	A Hybrid Machine Learning Method for Prediction of Thyroid Diseases using GWO-ANN

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	14:00-14:15	68	Yijing Li	Using Machine Learning and Natural Language Processing for Mixed Reality Content Creation in Museum Exhibitions
	14:15-14:30	71	Prof. Bekim Fetaji	Survey of Unified Theory of Acceptance and Use of Technology (UTAUT) and Devising Extended UTAUT-UR Model
	14:30-14:45	67	Yijing Li	Innovative Applications of Mixed Reality Technology in Museum Exhibitions: Case Studies and Future Developments
	14:45-15:00	57	Simon P. Thomas	Innovations in Environmental Monitoring for Timber Frame Structures
	15:00-15:15	<b>Afternoon Refreshments and Networking</b>		
		<b>Session Chair: Mr. Jordan Jenkins</b>		
<b>15:15-15:45</b>	<b>Keynote Speech</b>	<b>Prof. Bekim Fetaji, Professor of Informatics and Vice Rector of Science Mother Teresa University (MTU) – Skopje, North Macedonia.</b>		
<b>15:45-17:00</b>	15:45-16:00	69	JenishKumar Paghadar	Cybersecurity Risks in Artificial Intelligence
	16:15-16:30	56	John P. Hughes	Analysis of Vulnerabilities in an Operational Technology Networks
	16:30-16:45	32	Fatyma Layas	User Research and Early Usability Evaluation of a Digitally Enabled System to Benefit Sedentary Workforce.
	16:45-17:00	54	Zhiqi Li	User Research and Early Usability Evaluation of a Digitally Enabled System to Benefit Sedentary Workforce
	17:00-17:30	Professor Garfield Southall		Closing Ceremony, Feedback Session, and Certificate Distribution

## (Industry Forum)

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Time	Session	Session Details	
08:30-09:00	Registration and Breakfast		
Industrial Forum, Session Chair: Dr. Terry Wallcott			
09:00-09:45	Keynote Speech	Dr. Festim Halil - Challenges with small & medium enterprise	
09:45-10:45	<b>Time</b>	<b>Presenting Author</b>	<b>Presentation Title</b>
	09:45-10:15	Mr. Christopher Stonelake	Human Factors and Hazard Desensitization: An appraisal of the electrical industry sector
	10:15-10:45	Mid-morning Refreshment and Networking	
10:45-11:20	Keynote Speech	Dr. Tope Olufon - Cybersecurity	
11:20-12:00	11:20-11:40	Dr. Mazin Al Noor	Quantum Computing
	11:40-12:00	Ms. Chantelle Zarb	Cybersecurity Assurance for Professional Services
12:00-13:00	Lunch		
Session Chair: Dr. Carlene Campbell			
13:00-13:45	Keynote Speech	Mr. Barry Kirby - Decoding Human Interaction: The Role and Importance of Human Factors in Electronics and Communications Engineering	
13:45-15:00	13:45-14:15	Mr. Emerson Bryan	Building Resilient Caribbean Knowledge Societies through Public Digital Transformation Programmes
	14:15-14:45	Mr. Hemsley (Benzly Hype) Morris Jr.	Innovative approaches: Being an innovator and creator as musician, performer and, screenwriter / actor / TV program producer
	14:45-15:00	Afternoon Refreshments and Networking	
Session Chair: Mr. James Lewis			
15:00-15:45	Keynote Speech	Mr. Wayne Cross - Cyber Security Excellence and our journey to ISO 27001 certification and maintenance	
15:45-16:30	15:45-16:15	Professor Daryl Powell/ Mr. Richard Morgan	Digitalization in Manufacturing: Trends, Challenges and Research Outlook
	16:15-17:00	Open Networking Session	
	17:00-17:30	Professor Garfield Southall	Closing Ceremony, Feedback Session, and Certificate Distribution

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**Physical Venue:**

University of Wales Trinity Saint David- Swansea Waterfront  
 IQ Campus, Swansea, SA1 8EW

**Parking:**

Free parking available close to the building.

**Meeting Rooms:** Day 1: 002

Day 2: 001

Day 3: 002 – Industry Forum

001 – Post Graduate Forum

**Online Meeting Links:**

Online Meeting Links: 14/08/23	Online Meeting Links: 15/08/23	Online Meeting Links: 16/08/23 (Postgrad)	Online Meeting Links: 16/08/23 (Industrial)
Join on your computer, mobile app or room device.	Join on your computer, mobile app or room device	Join on your computer, mobile app or room device	Join on your computer, mobile app or room device
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Or call in (audio only)	Or call in (audio only)	Or call in (audio only)	Or call in (audio only)
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