



IEMTRONICS

International Conference



IEMTRONICS 2025

International IOT, Electronics and Mechatronics Conference 2025
Imperial College London, United Kingdom
3rd-5th April, 2025

TECHNICAL SCHEDULE: CONTENT

Venue: Skempton Building, Imperial College London

- **BOSS Space A&B: Level 2**
- **Lecture Theatre LT 207: Level 2**
- **Breakout Rooms: 060A: Level 0**
- **Breakout Rooms: 060B: Level 0**

Date	Events	Physical Location	Online Link	TIMING*
DAY 1: 3 rd April, 2025	Registration	BOSS Space A&B		8:00 A.M-8:50 A.M
	Morning Refreshment			8:00 A.M-8:50 A.M
	INAUGURATION: Address by Conference Chairs	Lecture Theatre LT 207		9:00 A.M – 9:30 A.M
	KEYNOTE ADDRESS 1: Dr. Bikash Pal, Professor, Imperial College London, UK	Lecture Theatre LT 207		9:30 A.M – 10:15 A.M
	KEYNOTE ADDRESS 2: Dr. Paul Mitcheson, Professor, Imperial College London, UK	Lecture Theatre LT 207		10:15 A.M – 11:00 A.M
				11:00A.M-11:15 A.M
	Parallel Technical Paper Presentation Sessions 1:	Lecture Theatre LT 207		11:15A.M-01:00 P.M
	Parallel Technical Paper Presentation Sessions 2:	Breakout Rooms: 060A		11:15A.M-01:00 P.M
	Parallel Technical Paper Presentation Sessions 3:	Breakout Rooms: 060B		11:15A.M-01:00 P.M
				01:00 P.M-02:00 P.M
	Parallel Technical Paper Presentation Sessions 4:	Lecture Theatre LT 207		02:00 P.M-04:00 P.M
	Parallel Technical Paper Presentation Sessions 5:	Breakout Rooms: 060A		02:00 P.M-04:15 P.M
	Parallel Technical Paper Presentation Sessions 6:	Breakout Rooms: 060B		02:00 P.M-04:00 P.M
	Evening Refreshment			04:00P.M-04:30P.M

Venue: Skempton Building, Imperial College London

Date	Events	Physical Location	Online Link	TIMING*
DAY 2: 4 th April, 2025	Registration	BOSS Space A&B		8:30 A.M-9:20 A.M
	Morning Refreshment			8:30 A.M-9:20 A.M
	KEYNOTE ADDRESS 3: Dr. Xiaohong Wang Gao, Professor, Middlesex University, UK	Lecture Theatre LT 207		9:30 A.M – 10:15 A.M
	Technical Paper Presentation Sessions 7:	Lecture Theatre LT 207		10:15A.M-11:15 P.M
				11:15 A.M-11:30 A.M
	Technical Paper Presentation Sessions 8:	Lecture Theatre LT 207		11:30 A.M-01:00 P.M
				01:00 P.M-02:00 P.M
	Parallel Technical Paper Presentation Sessions 9:	Lecture Theatre LT 207		02:00 P.M-04:00 P.M
	Parallel Technical Paper Presentation Sessions 10:	Breakout Rooms: 060A		02:00 P.M-04:00 P.M
	Evening Refreshment			04:00P.M-04:30P.M

Venue: Skempton Building, Imperial College London

Date	Events	Physical Location	Online Link	TIMING*
DAY 3: 5 th April, 2025	Registration	BOSS Space A&B		8:30 A.M-9:20 A.M
	Morning Refreshment			8:30 A.M-9:20 A.M
	KEYNOTE ADDRESS 4: Mr. Sanjeev Kothari, Data & AI Consulting Leader AI Governance Professional Memberof DAMA,UK DCAM Speaker Mentor Thought Leader CIO 200awards Top 25 Digital Transformation Leader Data Story of theYear runner up by DAMA UK	Lecture Theatre LT 207		9:30 A.M – 10:15 A.M
	KEYNOTE ADDRESS 5: Dr. Luis Martínez López ,Professor of Computer Science, University of Jaén	Lecture Theatre LT 207		10:15 A.M – 11:00 A.M
				11:00A.M-11:15 A.M
	Parallel Technical Paper Presentation Sessions 11:	Lecture Theatre LT 207		11:15 A.M- 12:15 P.M
	Parallel Technical Paper Presentation Sessions 12:	Breakout Rooms: 060A		11:15 A.M- 12:15 P.M
	Parallel Technical Paper Presentation Sessions 13:	Breakout Rooms: 060B		11:15 A.M- 12:15 P.M
	Valedictory Session	Lecture Theatre LT 207		12:15 P.M-01:00 PM
	Lunch & Networking Session			01:00PM-02:00PM

Shading category in schedule	Mode of Presentation
	Physical Presentation
	Virtual Presentation

* All the timings are given in BST — British Summer Time

DAY 1: 3rd April, 2025:: PARALLEL SESSIONS (Venue: Lecture Theatre LT 207)**SESSION : 1: Artificial Intelligence & Machine Learning****SESSION CHAIR: Dr. Abdul-Rahman Al-Ali (American University of Sharjah, United Arab Emirates) (Online Rapporteur: Prof. Subhabrata Banerjee, Prof. Mihir Lal Saha)****SESSION TIME: 11:15A.M-01:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1571124651	Diabetic Retinopathy Diagnosis Using a Hybrid EfficientNet-ResNet Model with Coordinate Attention	Malay Sarkar (Graduate Assistant, USA); Mahmudul Hoque (Morgan State University, USA); Abdul Ahad and Md Mahabube Alahi Atik (North South University, Bangladesh); Md Refadul Hoque (St. Francis College, USA); Md Rakib Mahmud (University of the Potomac, USA); Md Minzamal Hasan (Westcliff University, USA); Abrar Fahim (Islamic University of Technology, Bangladesh)
11:30 A.M--11:45 A.M	1571118413	Blockchain-Based Demand Side Management: a Novel Approach and Experimental Analysis	Ameni Boumaiza (Hamad Bin Khalifa University & QEERI, Qatar)
11:45 A.M-12:00 P.M	1571118414	Smart Energy Management in Qatar: AI-Enhanced Mini-Grids for Sustainable Community Solar Power	Ameni Boumaiza (Hamad Bin Khalifa University & QEERI, Qatar)
12:00 P.M-12:15 P.M	1571125222	Is the EU AI Act a Roadblock for the Evolution of the Telecommunications in Europe?	Lorenzo Vangelista (University of Padova, Italy)
12:15 P.M-12:30P.M	1571121436	Privacy-Preserving Self-Learning Chatbot with Federated Intelligence	Pankhuri Kulshrestha (MINDTRACE.AI, United Kingdom (Great Britain)); Asra Aslam (University of Sheffield, United Kingdom (Great Britain)); Mohammad Samar Ansari (University of Chester, United Kingdom (Great Britain))
12:30 P.M-12:45 P.M	1571125717	Analyzing the Impact of Serious Game 'Agent Zero' in Raising Awareness and Motivation to Learn on Global Warming and Waste Management	Totti Adithana Sunarto, Aaron Medhavi Kusnandar, Steven Nugroho Adjisalam, Andhika Suryanto, Adelya Salsabilah Sjafri, Muhamad Fajar and Galih Dea Pratama (Bina Nusantara University, Indonesia)
12:45 P.M-01:00 P.M	1571116406	Use of Methodologies for Project Management in Industry 4.0	Hector Valcarcel (Universidad Continental, Peru); Suni Escobar-Baquerizo (Universidad ESAN, Peru)

DAY 1: 3rd April, 2025:: PARALLEL SESSIONS (Venue: Breakout Rooms: 060A)**SESSION : 2: Information Technology****SESSION CHAIR: Dr. Shahriar Khan (Independent University, Bangladesh) (Online Rapporteur: Prof. Gobinda Sen, Prof. Sutapa Ray Adhikary)****SESSION TIME: 11:15A.M-01:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1571125862	AI-Powered Skin Disease Detection: a Deep Learning Approach with ResNet50 and EfficientNetB0	Md. Siamul Islam Shayon (East West University, Bangladesh); Md Sabbir Ahmed (North South University, Bangladesh); Md Musa Ali (Touro University, USA); Shihab Ahmed (Towson University, USA); Md Tuhin Mia (International American University, USA); Sazzadul islam Shovon (Central Michigan University, USA); Kazi Tanvir Akter and Abdul Ahad (North South University, Bangladesh)
11:30 A.M-11:45 A.M	1571121439	Role of Cloud Computing in Project Management	Chella Keerthana Selvan and Mubarak Mohammed (University of Chester, United Kingdom (Great Britain)); Asra Aslam (University of Sheffield, United Kingdom (Great Britain)); Mohammad Samar Ansari (University of Chester, United Kingdom (Great Britain))
11:45 A.M-12:00 P.M	1571125088	Analysis and Selection of an Appropriate Model for Analyzing the Current State and Spread of COVID-19 in Uzbekistan Based on SIR and SIER Models	Avaz Ergashevich Kuvnakov and Naim Nodira (TUIT, Uzbekistan)
12:00 P.M-12:15 P.M	1571126412	Data-Driven Predictive Models for Gig Economy Workforce Optimization	Geeta Sandeep Nadella (University of the Cumberlands, USA); Mohan Harish Maturi (University of Cumberlands, USA); Renjith Kathalikkattil Ravindran (Castlight Health, USA); Elyson A De La Cruz (University of the Cumberlands, USA & Imagine Believe Realize LLC, USA); Hari Gonaygunta and Karthik Meduri (University of the Cumberlands, USA)
12:15 P.M-12:30 P.M	1571126421	Understanding the Role of Trust in Adopting Public Cloud Services in US Financial Institutions: a PLS-SEM Approach	Snehal Satish and Geeta Sandeep Nadella (University of the Cumberlands, USA); Elyson A De La Cruz (University of the Cumberlands, USA & Imagine Believe Realize LLC, USA); Mohan Harish Maturi (University of Cumberlands, USA); Sai Sravan Meduri and Srikar Podicheti (University of the Pacific, USA)
12:30 P.M-12:45 P.M	1571116310	Shoulder Exoskeletons for Motor Rehabilitation	Hector Valcarcel (Universidad Continental, Peru); Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru)
12:45 P.M-01:00 P.M	1571116316	Robotic Exoskeletons for Upper Limb Using sEMG for Flexion and Extension Movements	Hector Valcarcel (Universidad Continental, Peru); Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru)

DAY 1: 3rd April, 2025:: PARALLEL SESSIONS (Venue: Breakout Rooms: 060B)**SESSION : 3: Information Technology****SESSION CHAIR: Dr. Amin Al Ka'bi (Australian University - Kuwait, Kuwait) (Online Rapporteur: Prof. Ardhendu Kundu, Prof. Soumik Kumar Kundu)****SESSION TIME: 11:15A.M-01:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1571126668	Autonomous Supply Chain Optimization Using Machine Learning	Mohan Harish Maturi (University of Cumberlands, USA); Renjith Kathalikkattil Ravindran (Castlight Health, USA); Vedaprada Raghunath (IMR Soft, USA & Ken Technologies, USA); Karthik Meduri, Hari Gonaygunta, Geeta Sandeep Nadella and Snehal Satish (University of the Cumberlands, USA)
11:30 A.M-11:45 A.M	1571124406	Automated Incident Response Systems: Enhancing Efficiency and Accuracy in the Clouds	Bennett Akpomedaye (Georgia Southern University, USA); Hayden Wimmer (Georgia Southern University, USA & Institute for Health Logistics and Analytics, USA)
11:45 A.M-12:00 P.M	1571116322	Artificial Intelligence, the Neurons of the Robots: a Strategic Alternative for Peru	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Jaime Huaytalla (Universidad Continental, Peru); Suni Escobar-Baquerizo (Universidad ESAN, Peru)
12:00 P.M-12:15 P.M	1571121445	Surface Recognition and Reconstruction Systems for Rescue in Rural Areas Through a Terrestrial Mobile Robot Using Q Learning	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Hector Valcarcel (Universidad Continental, Peru); Deisy Acosta-Ticse (Universidad Peruana de Ciencias Aplicadas, Peru); Jorge Poma-Deza (Universidad San Ignacio de Loyola, Peru)
12:15 P.M-12:30 P.M	1571114600	NextSeg: Vision-Centric Image Segmentation with Hierarchical Attentive Feature Aggregation	Priyank Kalgaonkar (Lafayette College, USA)
12:30 P.M-12:45 P.M	1571119947	Design and Construction of a Portable Secretion Mini Suction Device Controlled by an Application	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Deisy Acosta-Ticse (Universidad Peruana de Ciencias Aplicadas, Peru); Mayerly Damian-Gavino and Pedro Shiguihara (Universidad San Ignacio de Loyola, Peru); Eduardo Sotelo-Bazán (Universidad Nacional Del Callao, Peru); Angie Montoya and Jorge Poma (Universidad San Ignacio de Loyola, Peru)
12:45 P.M-01:00 P.M	1571102741	Voice-Activated Dispatch and Navigation for Autonomous Patrol Vehicles: Enhancing Law Enforcement Capabilities	Swarnamouli Majumdar (Concordia University, Quebec, Canada); Sonny Kirkley (Indiana University, USA)

DAY 1: 3rd April, 2025:: PARALLEL SESSIONS (Venue: Lecture Theatre LT 207)**SESSION : 4: Artificial Intelligence & Machine Learning****SESSION CHAIR: Dr. Shahriar Khan (Independent University, Bangladesh)(Online Rapporteur: Prof. Murari Shaw, Prof. Amit Kumar Das)****SESSION TIME: 02:00 P.M-04:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:00 P.M-02:15 P.M	1571125600	From Waves to Vision: Transforming Heart Sound Classification with Wav2Vec 2.0 and Vision Transformers	Vinka Bella and Samuel Ady Sanjaya (Universitas Multimedia Nusantara, Indonesia)
02:15 P.M-02:30 P.M	1571118388	The Future of Artificial Intelligence in Forensics: Advancements, Challenges, and Ethical Considerations	Vaibhavi Tiwari (Montclair State University, USA & MyGreen Health, USA); Venkata Sai Ram Dasari and Jiayin Wang (Montclair State University, USA)
02:30 P.M-02:45 P.M	1571116265	Real-Time Bengali Sign Language Recognition and Bilingual Text-to-Speech Conversion Using Machine Learning Techniques	Yeastic Hassan Zihan, Iffaat Ara Mehnaz, Anisha Shawana Sharif, Nusrat Jahan Tisha and M. Rashedur Rahman (North South University, Bangladesh)
02:45 P.M-03:00 P.M	1571116267	Automating the Optimal Privacy Budget Selection for Differential Privacy in Federated Learning Environments	Faisal Mahmud, Abdul Mueed, Mohammad Taseen, Md Jahir Uddin Shuvo, Nusrat Jahan Pritu and M. Rashedur Rahman (North South University, Bangladesh)
03:00 P.M-03:15 P.M	1571121479	RT FIL Analysis for Inverter Integrated Microgrid Using ARTY A7 100T	Ojasvi Sanjay Sonone (VJTI Mumbai, India); Amey Sushil Chavekar, Sunny Kumar and Sushma Wagh (VJTI, Mumbai, India)
03:15 P.M-03:30 P.M	1571123075	Sentiment Analysis on Mass Deportation from News Aggregation & Content Rating in a Forum Social Network	Swetha Kambham, Pavan Kalyan Goud Koppula and Aparna Varde (Montclair State University, USA)
03:30 P.M-03:45 P.M	1571109962	IoT & Machine Learning Based Earthquake Survivor Detector Probe	Abdullah AlSaadi, Bana Sous, Jood Shinawi, Layeth Jarai, Ahmad Al Nabulsi, Salam Dhou and Abdul-Rahman Al-Ali (American University of Sharjah, United Arab Emirates)
03:45 P.M-04:00 P.M	1571128386	Robust Forearm Motion Classification from EMG Data Using Deep Learning Techniques	Maher Alrahhal and Mohammad AlShabi (University of Sharjah, United Arab Emirates); Stephen Andrew Gadsden (McMaster University, Canada); Talal Bonny (University of Sharjah, United Arab Emirates)

DAY 1: 3rd April, 2025::PARALLEL SESSIONS (Venue: Breakout Rooms: 060A)**SESSION : 5: Information Technology****SESSION CHAIR: Dr. Lorenzo Vangelista (University of Padova, Italy)(Online Rapporteur: Prof. Ardhendu Kundu, Prof. Soumik Kumar Kundu)****SESSION TIME: 02:00 P.M-04:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:00 P.M-02:15 P.M	1571124788	Comparative Analysis of Virtual Machine Performance and Security Test Across Leading Cloud Providers	Ifeoluwa Elegbe (Georgia Southern University, USA); Hayden Wimmer (Georgia Southern University, USA & Institute for Health Logistics and Analytics, USA)
02:15 P.M-02:30 P.M	1571121226	No-Code and Low-Code Technological Tools	Hector Valcarcel (Universidad Continental, Peru); Deisy Acosta-Ticse (Universidad San Ignacio de Loyola, Peru); Yuri Ccoicca-Pacasi (Universidad Nacional de Ingeniería, Peru)
02:30 P.M-02:45 P.M	1571125828	The Influence of the Health Education Game on Gamers Regarding Awareness of the Importance of a Nutritious and Balanced Diet	Nicholas Diporedjo (Binus University, Indonesia); Allan Alexander Matthew, Anthony Henry Suryana, Reynata Praja Oktavian, Zaky Muhammad Yusuf, Muhamad Fajar and Galih Dea Pratama (Bina Nusantara University, Indonesia)
02:45 P.M-03:00 P.M	1571115470	LLM Quantization: Efficient and Small Language Models	Maryam Heidari (George Mason University, USA)
03:00 P.M-03:15 P.M	1571123256	State Space ARIMA Model Formulation and Its Application in Energy	Solomon Buke Chudo (University of Debrecen & Informatics, Hungary)
03:15 P.M-03:30 P.M	1571122783	New Key Encapsulation Method for Authentication in 5G Network in the Post-Quantum Era	Gennady Khalimov (Kharkiv National University of Radioelectronics, Ukraine); Yevgen V. Kotukh (Yevhen Bereznia Military Academy & Jevera Software, Ukraine); Alexander M. Wyglinski and Xiaoyan Sun (Worcester Polytechnic Institute, USA); Illia Dzhura (Kyiv Aviation Institute, Ukraine); Hlib Khivrenko (Kharkiv National University of Radioelectronics, Ukraine)
03:30 P.M-03:45 P.M	1571123255	Understanding the Influence of Demographic Factors on EPC Ratings and Retrofit Decisions in South Yorkshire: a Case Study in the UK	Charles George, Suvodeep Mazumdar and Abdallah Yaghi (University of Sheffield, United Kingdom (Great Britain)); Abdulqadeer Fayaz-Khan and Ceri Batchelder (South Yorkshire Mayoral Combined Authority, United Kingdom (Great Britain))
03:45 P.M-04:00 P.M	1571125282	Game Dev Dilemmas: Towards Developing a Game App to Enhance Entrepreneurial Knowledge for Aspiring Game Studio Founders	Ferdinand Ferdinand (Bina Nusantara University, Indonesia & BINUS University, Indonesia); Francesco Agus Thu, Muhamad Fajar and Richard (Bina Nusantara University, Indonesia)
04:00 P.M-04:15 P.M	1571121626	Convergence of Optical and Wireless Systems: Enhancing Future Communication Networks	Somayeh Mohammady (Technological University Dublin, Ireland)

DAY 1: 3rd April, 2025::PARALLEL SESSIONS (Venue: Breakout Rooms: 060B)**SESSION : 6: Electronics****SESSION CHAIR: Dr. Ameni Boumaiza (Hamad Bin Khalifa University & QEERI, Qatar)(Online Rapporteur: Prof. Sutanu Ghosh, Prof. Samit Karmakar)****SESSION TIME: 02:00 P.M-04:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:00 P.M-02:15 P.M	1571121377	Tunable Electronic and Optical Properties of GaN-Based Alloys: a DFT Study	Mash-Hura Tasnim (North South University, Bangladesh); Muhammad Shoyaibur Rahman Chowdhury (Gannon University, USA); Mohammad Moinul Islam (Florida Atlantic University, USA); Md Sabbir Ahmed (North South University, Bangladesh); S. M. Tareq Aziz (Jahangirnagar University, Bangladesh); Noshini Islam Naina (University of Hartford, USA); Abdul Ahad (North South University, Bangladesh)
02:15 P.M-02:30 P.M	1571124773	Development of a Machine for the Automated Transcription of Spanish Texts into Braille for Educational Institutions in Peru	Yadhira Samhira Valenzuela Lino, Orlando Mark Alarcon Medina, Anthony Brian De La Cruz Hilario, Enmanuel De La Calle Hospina and Flavio Sebastian Valdivia Espinoza (Universidad Continental, Peru)
02:30 P.M-02:45 P.M	1571120137	Traffic Prioritization Mechanisms for Mission and Time Critical Applications in Industrial Internet of Things	Anwar Ahmed Khan and Shama Siddiqui (Walton Institute for Information and Communications Systems Science, Waterford, Ireland); Indrakshi Dey (South East Technological University, Waterford, Ireland)
02:45 P.M-03:00 P.M	1571116306	Fuzzy, Neural, and Neuro-Fuzzy Controllers for an Inverted Pendulum	Hector Valcarcel (Universidad Continental, Peru); Jaime Escobar (Universidad Ricardo Palma, Peru); Kenny Neira-Neira and Jorge Poma-Deza (Universidad San Ignacio de Loyola, Peru)
03:00 P.M-03:15 P.M	1571116273	AI-Powered Malware Detection: Ensemble Machine Learning for Android Threats	Raihan Rashid, Dipta Karmaker, Md. Jakaria Hossain Jihad, Samor Deb Nath Konok and M. Rashedur Rahman (North South University, Bangladesh)
03:15 P.M-03:30 P.M	1571123367	Quantum-Driven Molecular Design Using a QUBO Approach to Optimize Functional Imprints for Material Innovation	Pravir Malik (Deep Order Technologies, USA)
03:30 P.M-03:45 P.M	1571124422	Reimagining Quantum Computing from Atomic Intelligence to Integrated Quantum Computational Systems	Pravir Malik (Deep Order Technologies, USA)
03:45 P.M-04:00 P.M	1571118880	Design and Construction of Remote Controlled Vehicle	Grace Oletu, Marian E. M Segbaya and Joy A Tennon Razak (Academic City University, Ghana); Baldo Giorgio Otu-Quayson (Academic City University, USA)

DAY 2: 4th April, 2025:: SESSIONS (Venue: Lecture Theatre LT 207)**SESSION : 7: Mechatronics****SESSION CHAIR: Dr. Lakshmi Srinivas Gidugu (Carinthia University of Applied Sciences, Austria)(Online Rapporteur: Prof. Gobinda Sen, Prof. Sutapa Ray Adhikary)****SESSION TIME: 10:15 A.M- 11:15 A.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:15 A.M-10:30 A.M	1571116589	PLC-Based Load Control and IoT-Energy Monitoring for Grid-Connected Hybrid Systems	Amin Al Ka'bi (Australian University - Kuwait, Kuwait)
10:30 A.M-10:45 A.M	1571115424	Innovative PLC Control Algorithms in Buildings Using Automated Code Generation	Amin Al Ka'bi (Australian University - Kuwait, Kuwait)
10:45 A.M-11:00 A.M	1571115471	Enhanced Retrieval-Augmented Generation(RAG) with Question Similarity Filtering for QA Systems	Maryam Heidari (George Mason University, USA)
11:00 A.M-11:15 A.M	1571124749	LLM-Based Abstractive Summarization of PubMed Articles	Maryam Heidari (George Mason University, USA)

DAY 2: 4th April, 2025:: SESSIONS (Venue: Lecture Theatre LT 207)**SESSION : 8 : Artificial Intelligence & Machine Learning****SESSION CHAIR: Dr. Abdul-Rahman Al-Ali (American University of Sharjah, United Arab Emirates) (Online Rapporteur: Prof. Murari Shaw, Prof. Amit Kumar Das)****SESSION TIME: 11:30 A.M-01:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 A.M-11:45 A.M	1571113994	Efficient Measurement System for ICU Acoustic Noise Monitoring	Awwab Althahab and Hongjie Ma (University of Portsmouth, United Kingdom (Great Britain)); Branislav Vuksanovic (MTC, Oman); Mohamed Al-Mosawi (Military Technological College, Muscat, Oman)
11:45 A.M-12:00 P.M	1571124733	Parametric Optimization of Flexible Capacitive Sensors Using Design of Experiments and Electrostatic Modeling	Lakshmi Srinivas Gidugu and Mathias Brandstötter (Carinthia University of Applied Sciences, Austria)
12:00 P.M-12:15 P.M	1571080156	Comorbidities in Autism Spectrum Disorder: Assessment and Modeling	Rasha Kashef (Toronto Metropolitan University, Canada); Purva Gawde (University of Toronto, Canada)
12:15 P.M-12:30 P.M	1571125401	Wave-Based Pandemic Modeling Using Unsupervised Learning: Gaussian Mixture Model Approach	Sidi Mohamed Lalaoui Ben Cherif (LARGES Laboratory, FSJES- Chouaib Doukkali University, Morocco & College of Computing - Um6p, Morocco); Belkacem Abdous (Laval University, Quebec, Canada); Abdelmajid Bessate (Chouaib Doukkali University, Morocco)
12:30 P.M-12:45 P.M	1571131099	Advanced Speaker Diarization Techniques for Analyzing Uzbek Speech Signals	Kamoliddin Shukurov, Mannon Ochilov and Umidjon Khasanov (Tashkent University of Information Technologies, Uzbekistan); Shokhrukhmirzo Kholdorov (Tashkent University of Information Technologies Named After Muhammad Al-Khwarizmi, Uzbekistan); Mokhidil Rakhmanova (Academy of the Ministry of Internal Affairs of the Republic of Uzbekistan, Uzbekistan)
12:45 P.M-01:00 P.M	1571115582	Integration Platform for Authentication in Physical Access Control Systems	Aleksandr V. Belov and Andrey Volokh (National Research University Higher School of Economics, Russia)

DAY 2: 4th April, 2025:: PARALLEL SESSIONS (Venue: Lecture Theatre LT 207)			
SESSION : 9: Cognitive Systems			
ONLINE SESSION CHAIR: Dr. Pravir Malik (Deep Order Technologies, USA) (Online Rapporteur: Prof. Indranil Maity, Prof. Sayan Sarkar)			
SESSION TIME: 02:00 P.M-04:00 P.M			
PARTICIPATION LINK:			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:00 P.M-02:15 P.M	1571114592	Water Savior Embedded System	Vanchhit Khare (Assistant Vice President, USA & M&T Bank, USA); Deepak Solanki (Lovely Professional University, India)
02:15 P.M-02:30 P.M	1571123899	AI Generated Personalities with Audio and Video for Companionship and "Interaction" with the Deceased	Shahriar Khan (Independent University, Bangladesh)
02:30 P.M-02:45 P.M	1571116146	IOT Based Fault Detection and Monitoring System Using Raspberry Pi	Raafiu Ashiquzzaman Mahmood, Taremun Arefin, Md. Roman Khan and Salma Islam Mim (Independent University, Bangladesh, Bangladesh); Shahriar Khan (Independent University, Bangladesh)
02:45 P.M-03:00 P.M	1571121243	Implementation of Inexpensive Android-Based Home Appliance Control System	Shahriar Khan (Independent University, Bangladesh)
03:00 P.M-03:15 P.M	1571128387	Hybrid CNN for Efficient Content-Based Image Retrieval	Maher Alrahal, Mohammad AlShabi and Talal Bonny (University of Sharjah, United Arab Emirates); Stephen Andrew Gadsden (McMaster University, Canada)
03:15 P.M-03:30 P.M	1571129161	Application of Ant Colony Optimization in Pathfinding for Drone	Khaled Obaideen (University of Sharjah, United Arab Emirates); Stephen Andrew Gadsden (McMaster University, Canada); Mohammad AlShabi (University of Sharjah, United Arab Emirates); Stephen Andrew Wilkerson (York College of Pennsylvania, USA)
03:30 P.M-03:45 P.M	1571129517	An Analysis of Chess Games Using Skill-Group Specific n-Gram Language Models	Richard Kyung, CRG-NJ, USA; Daren Zhong, USA
03:45 P.M-04:00 P.M	1571129896	The Impact of Biotite Mats on Sleep Quality and Cognitive Balance: an EEG-Based Study on Alpha and Beta Wave Activity	Richard Kyung, CRG-NJ, USA

DAY 2: 4th April, 2025:: PARALLEL SESSIONS (Venue: Breakout Rooms: 060A)**SESSION : 10: Information Technology****SESSION CHAIR: Dr. Lakshmi Srinivas Gidugu (Carinthia University of Applied Sciences, Austria) (Online Rapporteur: Prof. Sutanu Ghosh, Prof. Samit Karmakar)****SESSION TIME: 02:00 P.M-04:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:00 P.M-02:15 P.M	1571125980	Exploring the Potential of Shooter Games in Education: Verifying the Usability of a Top-down Shooter Edugame	Evan Derian Rustam (Bina Nusantara University, Indonesia); D Darren Keane and Dennis Hubert Suwardi (Binus University, Indonesia); Jose Armando Kusnadi, Muhamad Fajar and Galih Dea Pratama (Bina Nusantara University, Indonesia)
02:15 P.M-02:30 P.M	1571126039	Development of Determined Path Driving Simulator and Usability Testing on Vehicle Handling	Yohanes Duns Scotus Aerotri Tunyanan, Jonathan Oyong, Luas Adil Kurniawan, Muhamad Fajar and Galih Dea Pratama (Bina Nusantara University, Indonesia)
02:30 P.M-02:45 P.M	1571124780	Support Robot for the Development of Peruvian Sign Language Learning in Children from 8 to 11 Years Old with Hearing Impairment	Yadhira Samhira Valenzuela Lino and Orlando Mark Alarcon Medina (Universidad Continental, Peru)
02:45 P.M-03:00 P.M	1571128383	Analyzing a Database of File Magic Patterns	Sudarshan S Chawathe (University of Maine, Orono, USA)
03:00 P.M-03:15 P.M	1571128824	Analysis of a File Magic Pattern Language	Sudarshan S Chawathe (University of Maine, Orono, USA)
03:15 P.M-03:30 P.M	1571117217	Privacy and Security in the Metaverse	Fahad Mira, Mira Fahad (University of Bedfordshire, United Kingdom (Great Britain) & London, United Kingdom (Great Britain))
03:30 P.M-03:45 P.M	1571121207	Technological Tools for Increase Information Security in Universities	Gabriela Rojas-Munive de Huali (Universidad San Ignacio de Loyola, Peru); Jaime Huaytalla (Universidad Continental, Peru); Suni Escobar-Baquerizo (Universidad ESAN, Peru); Ivan Delgado-Saavedra (Universidad Peruana de Ciencias Aplicadas, Peru)
03:45 P.M-04:00 P.M	1571121294	Technological Tools for Managing and Enhancing Teaching in Universities	Suni Escobar-Baquerizo (Universidad ESAN, Peru); Jaime Huaytalla (Universidad Continental, Peru); Deisy Acosta-Ticse (Universidad San Ignacio de Loyola, Peru); Paul Morales-Bustamante (Universidad Peruana de Ciencias Aplicadas, Peru)

DAY 3: 5th April, 2025:: PARALLEL SESSIONS (Venue: Lecture Theatre LT 207)			
SESSION : 11: IOT & Data Science			
SESSION CHAIR: Dr. Shahriar Khan (Independent University, Bangladesh) (Online Rapporteur: Prof. Subhabrata Banerjee, Prof. Mihir Lal Saha)			
SESSION TIME: 11:15 A.M- 12:15 P.M			
PARTICIPATION LINK:			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1571115580	DNA-Based Algorithm for Determining Human Relationship	Muslimjon Kuchkarov and Hakimjon Zaynidinov (Tashkent University of Information Technologies, Uzbekistan); Murodjon Yokubov (The Republican Center of Forensic Expertise named after Kh. Sulaymonova, Uzbekistan)
11:30 A.M-11:45 A.M	1571131091	Scientific Foundations for Selecting Spectral Transformation Algorithms in Electromyography Signal Processing	Kamoliddin Shukurov (Tashkent University of Information Technologies, Uzbekistan); Mekhriddin Mirjamolov (Physical Education and Sports Scientific Research Institute, Uzbekistan); Alokhan Kakhkharov (Tashkent University of Information Technologies, Uzbekistan); Shokhrukhmirzo Kholdorov (Tashkent University of Information Technologies Named After Muhammad Al-Khwarizmi, Uzbekistan)
11:45 A.M-12:00 P.M	1571121352	Model-Free Neural Network Based Control of a Serial Robotic Manipulator	Jeric Jiang (Dr Robot Inc., Canada); Serdar S Kalaycioglu (Toronto Metropolitan University & Canadian Space Research Inc., Canada)
12:00 P.M-12:15 P.M	1571121516	Financial Misinformation and Trading Manipulation Using Large Language Models (LLMs)	Shakalya Nag (University of Cambridge, United Kingdom (Great Britain) & Acuity Knowledge Partners Pvt Ltd, United Kingdom (Great Britain))

DAY 3: 5th April, 2025:: PARALLEL SESSIONS (Venue: Breakout Rooms: 060A)**SESSION : 12: Electronics****SESSION CHAIR: Dr. Ameni Boumaiza (Hamad Bin Khalifa University & QEERI, Qatar) (Online Rapporteur: Prof. Indranil Maity, Prof. Sayan Sarkar)****SESSION TIME: 11:15 A.M- 12:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1571125315	Predicting Downtimes in CNC Manufacturing Machines from Spindle Current	Maryna Avdiienko, Suvodeep Mazumdar and Abdallah Yaghi (University of Sheffield, United Kingdom (Great Britain)); Rowan Easter-Robinson (TrackMyMachines, United Kingdom (Great Britain))
11:30 A.M-11:45 A.M	1571115536	IoT Data Fusion Techniques: a Systematic Review and Meta-Analysis	Kelechi C Umeaka, Jack Longwell and Rasha Kashef (Toronto Metropolitan University, Canada)
11:45 A.M-12:00 P.M	1571120291	A High Gain DC-DC Converter for BLDC Motor Control Using a Modified Proportional-Integral Controller	Farhana Islam (Independent University, Bangladesh, Bangladesh); Md Rezanul Haque and Aman Maung Than Oo (Macquarie University, Australia); Md. Abdur Razzak (Independent University, Bangladesh, Bangladesh)
12:00 P.M-12:15 P.M	1571122503	Substrate Integrated Waveguide (SIW) Antenna with Cavity-Backed Configuration and Integrated Connected C-Slot for Satellite Communication Applications	Barshana Chatterjee (Institute of Engineering and Management, India); Ankana Majumdar (Institute of Engineering and Management Kolkata, India)

DAY 3: 5th April, 2025:: PARALLEL SESSIONS (Venue: Breakout Rooms: 060B)**SESSION : 13: Electronics****SESSION CHAIR: Dr. Sankhyabrata Bandyopadhyay (University College London,UK) (Online Rapporteur: Prof. Ardhendu Kundu, Prof. Monali Das)****SESSION TIME: 11:15 A.M- 12:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1571126671	Blockchain-Enabled Digital Therapeutics for Managing Public Health Emergencies	Hari Gonaygunta (University of the Cumberlands, USA); Renjith Kathalikkattil Ravindran (Castlight Health, USA); Mohan Kumar Meesala (University of the Cumberlands, USA); Vedaprada Raghunath (IMR Soft, USA & Ken Technologies, USA); Mohan Harish Maturi (University of Cumberlands, USA); Geeta Sandeep Nadella and Karthik Meduri (University of the Cumberlands, USA)
11:30 A.M-11:45 A.M	1571120480	An Enhanced Domain-Specific IoT Generative Adversarial Network (EGAN-IoT) for Synthetic Data Generation	Sarabjeet Arora, Papa Antwi, Monish Gorre and Rasha Kashef (Toronto Metropolitan University, Canada)
11:45 A.M-12:00 P.M	1571120135	Effective Capacity of MIMO-STBC over Correlated Weibull Fading Channels	Abdelmajid Bessate (Chouaib Doukkali University, Morocco)
12:00 P.M-12:15 P.M	1571124940	Single Band-Notched Ultrawideband Multi Input/Multi Output Antenna for High Isolation	Ankana Majumdar (Institute of Engineering and Management Kolkata, India)