



IEMTRONICS

International Conference



IEMTRONICS 2026

International IOT, Electronics and Mechatronics Conference 2026
Imperial College London, United Kingdom
16th-18th April, 2026

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: 16 th April, 2026	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: Prof Emmanouil Spyrakos, Professor in Robotics, Centre for Robotics Research (CoRe), Department of Engineering, King’s College London, UK	Lecture Theatre LT 207		9:30 A.M – 10:15 A.M
	KEYNOTE ADDRESS 2: Prof. Polina Bayvel, Professor of Optical Communications & Networks, Dept of Electronic & Electrical Engg., University College London, UK	Lecture Theatre LT 207		10:15 A.M – 11:00 A.M
	Mid Morning Refreshment			11:00A.M-11:15 A.M
	Technical Paper Presentation Sessions 1:	Lecture Theatre LT 207		11:15A.M-01:00 P.M
	Technical Paper Presentation Sessions 2:	Breakout Rooms: 060A		11:15A.M-01:00 P.M
	Technical Paper Presentation Sessions 3:	Breakout Rooms: 060B		11:15A.M-01:00 P.M
	Lunch & Networking Session			01:00 P.M-02:00 P.M
	Technical Paper Presentation Sessions 4:	Lecture Theatre LT 207		02:00 P.M-04:00 P.M
	Technical Paper Presentation Sessions 5:	Breakout Rooms: 060A		02:00 P.M-04:15 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: 17 th April, 2026	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: Prof. Rebecca Cheung, FRSE, Head of Institute for Integrated Micro and Nano Systems, Scottish Microelectronics Centre, School of Engineering, The University of Edinburgh, Scotland, UK	Lecture Theatre LT 207		9:30 A.M – 10:15 A.M
	Mid Morning Refreshment			10:15 A.M-10:30 A.M
	Technical Paper Presentation Sessions 6:	Lecture Theatre LT 207		10:30A.M-12:15 P.M
	KEYNOTE ADDRESS 4: Prof Balbir Barn, Professor of Computer Science, Academic Dean for the Faculty of Science and Technology, Middlesex University, UK	Lecture Theatre LT 207		12:15 P.M-01:00 P.M.
	Lunch & Networking Session			01:00 P.M-02:00 P.M
	Technical Paper Presentation Sessions 7:	Lecture Theatre LT 207		02:00 P.M-04:00 P.M
	Technical Paper Presentation Sessions 8:	Breakout Rooms: 060A		02:00 P.M-04:00 P.M
	Evening Refreshment			04:00P.M-04:30P.M

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

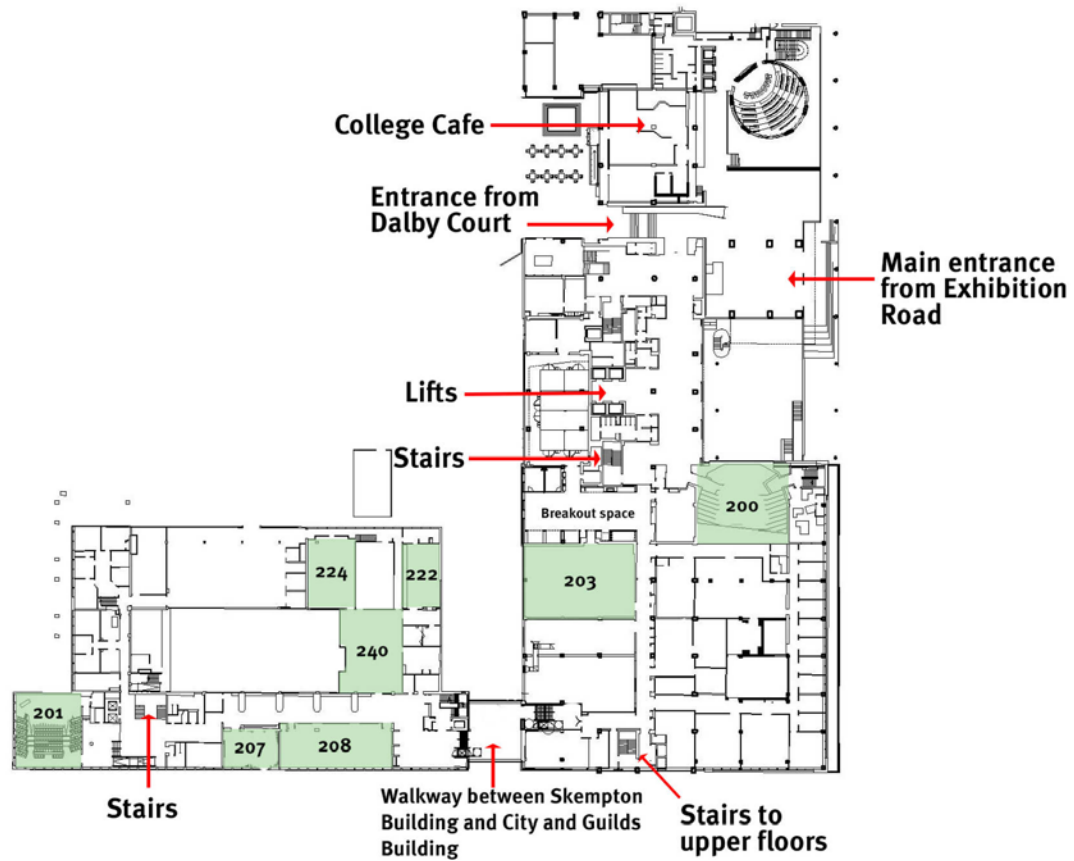
Venue: Skempton Building, Imperial College London

Date	Events	Physical Location	Online Link	TIMING*
DAY 3: 18 th April, 2026	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 5: Prof Marco Di Renzo, Professor of Telecommunications Engineering Director, Centre for Telecommunications Research, King's College London, UK	Lecture Theatre LT 207		9:30 A.M – 10:15 A.M
	KEYNOTE ADDRESS 6: Prof. Helge A Wurdemann, Professor and Chair of Robotics, Turing Fellow (2021-2023), Co-General Chair of ICRA 2023, UCL Mechanical Engineering, University College London (UCL), UK	Lecture Theatre LT 207		10:15 A.M – 11:00 A.M
	Mid Morning Refreshment			11:00A.M-11:15 A.M
	Valedictory Session	Lecture Theatre LT 207		11:30 AM-12:30 PM
	Lunch & Networking Session			12:30 PM-01:30 PM

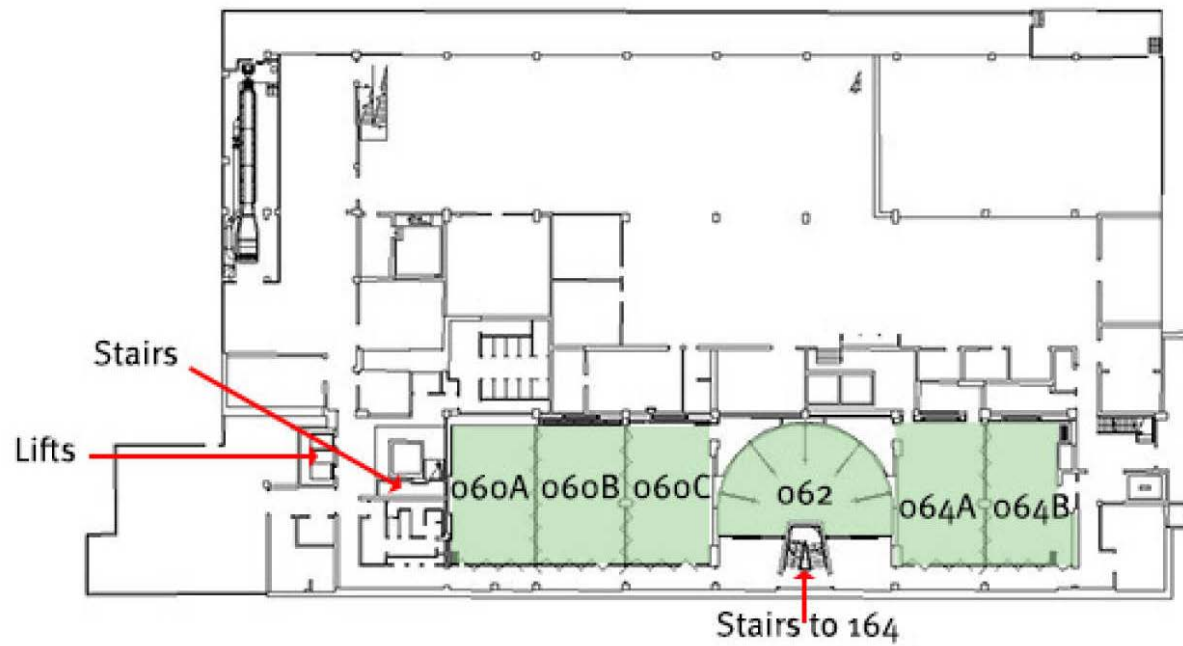
Shading category in schedule	Mode of Presentation
	Physical Presentation
	Virtual Presentation

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

Floorplan of Level 2 Skempton Building and City & Guilds Building



Floorplan of Level 0



DAY 1: :: PARALLEL SESSIONS (Venue: Lecture Theatre LT 207)

SESSION : 1: Artificial Intelligence & Machine Learning

SESSION CHAIR: (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	1571254211	Designing Inclusive AI-Enhanced Professional Learning: A Pedagogical Perspective from Software Testing and Agile Education	Adedeji Emmanuel (York St. John University, United Kingdom (Great Britain))
11:30 A.M--11:45 A.M	1571264323	Application of Artificial Intelligence in Energy-Efficient Buildings	Amin Al Ka'bi and Khaled AbuJbara (Australian University - Kuwait, Kuwait); Kais Al-Abdullah (Australian University-Kuwait, Kuwait); Hamzeh Aljarajreh (Australian University - Kuwait, Kuwait)
11:45 A.M-12:00 P.M	1571261663	An Open and Verifiable ConvNeXt-Based Pipeline for Breast Cancer Detection in Mammography Using CBIS-DDSM	Araj Shah, Saujanya Thapaliya and Vijay Chaudhary (Howard University, USA); Fadel M Lashhab (Howard University & Washington DC, USA); Kholood Ahmad (Howard University, USA)
12:00 P.M-12:15 P.M	1571261496	AI-Driven Personalized Mental Health Interventions Using Wearable Technology: A Machine Learning Approach with Physiological Data	Justin Davis (Castlight Health, USA); Sanjay Kumar Polampally (Valparaiso University, USA); Sharat Kumar Ragunayakula (Delaware First Health, USA); Ashok Morsu (ThermoFisher, USA); Karthik Meduri (University of the Cumberland, USA); Jaya Madhava Sai Teja Kosireddy (Campbellsville University, USA); Sumanth Banakar and Venkatesh Ankarla Sri Ramuloo (University of the Cumberland, USA)
12:15 P.M-12:30P.M	1571262074	Quantum Machine Learning for Decoding Alien Communications: Using Quantum Neural Networks to Analyze SETI Signals	Hari Gonaygunta and Hanh Le (University of the Cumberland, USA); Elyson A De La Cruz (University of the Cumberland, USA & Imagine Believe Realize LLC, USA); Dharmender T Salian (University of Cumberland, USA); Karthik Meduri and Geeta Sandeep Nadella (University of the Cumberland, USA)
12:30 P.M-12:45 P.M	1571262137	Physics-Aware Real Time Edge Framework for Collision Risk Field Estimation Using RGB-D Sensing	Rayyan Petkar and Atharva Dhande (VJTI, Mumbai, India); Ojasvi Sanjay Sonone (VJTI Mumbai, India); Amey Sushil Chavekar and Sunny Kumar (VJTI, Mumbai, India); Sudhir Bhil (VJTI, India); Sushma Wagh (VJTI, Mumbai, India)
12:45 P.M-01:00 P.M	1571253020	Architectural Paradigms for AI-Native Database Systems: A Theoretical Framework for Unified Intelligence in Data Management	Rahmatillo Fozilliddinovich Khudoyberdiev, Gaijnazarov Rustam, Muxtarova Gulnora and Viktoria Kuznetsova (TUIT, Uzbekistan); Sodiqov Vali (Salim o'g'li, Uzbekistan)

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

DAY 1: :: PARALLEL SESSIONS (Venue: Breakout Rooms: 060A)

SESSION : 2: Information Theory

SESSION CHAIR: (Online Rapporteur: Prof. Subhabrata Banerjee, 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	1571253829	Design and Evaluation of a Cloud-Agnostic Testing Architecture for Multi-Cloud Systems	Jay Bharat Mehta (Cleveland State University, Alumni, USA)
11:30 A.M--11:45 A.M	1571263865	Data Mining Implementation for Detection of Stroke Risk: A Classification Approach	Jovan Christian Elbindo (Bina Nusantara, Indonesia); Welly Piyono (BINUS University, Indonesia); Marvell Juan Tanika and Andika Elok Amalia (Bina Nusantara University, Indonesia)
11:45 A.M-12:00 P.M	1571262386	Observability-to-Compliance: Converting CRM Platform Telemetry into Audit Evidence for Multi-Tenant Clinical SaaS	Karthik Bodducherla (Individual Researcher, USA)
12:00 P.M-12:15 P.M	1571231793	Comprehensive Review of Extant Literature Reviews on the Transformation of Supply Chain Management Through Digital Technologies	Mohamed Mamad and Ouissal Chichi (Ibn Tofail University, Morocco); Oussama El Khalil Houssaini (Higher School Of Industrial Logistics, France)
12:15 P.M-12:30P.M	1571252184	Formal Model of Cryptographic Protection of NoSQL Databases Against Injection Attacks: A Theoretical Approach for MongoDB and Apache Cassandra	Rahmatillo Fozilliddinovich Khudoyberdiev (TUIT, Uzbekistan); Durдона Yakubdjanovna Irgasheva (Tashkent University of Information Technologies Named After Muhammad Al-Khwarizmi, Uzbekistan); Gaipnazarov Rustam and Jumaqulov Baxodir (TUIT, Uzbekistan); Khusaydinova Dilobar (Mirxamidovna, Uzbekistan)
12:30 P.M-12:45 P.M	1571254445	Preserving Cultural Heritage Through Immersive Mixed Reality Experience: Digitalizing Historical Artifacts and Places in Sri Lanka	Savindu Dhamsara Perera and Rasika Ranaweera (NSBM Green University, Sri Lanka)
12:45 P.M-01:00 P.M	1571259705	Implementing the LINEture Post-Quantum Signature Scheme in OCaml with Bit-Packed GF(2) Matrix Algebra	Maksym Korobchynskiy (Yevhenii Bereznyak Military Academy, Ukraine); Mykhailo Rudenko (School of Information Technologies, Ukraine); Vadym Sokur (Yevhenii Bereznyak Military Academy, Ukraine); Yevgen Kotukh (Dnipro University of Technology, Ukraine); Gennady Khalimov (Kharkiv National University of Radioelectronics, Ukraine); Viacheslav Podlipaiev (Yevheniy Bereznyak Military Academy, Ukraine)

DAY 1: :: PARALLEL SESSIONS (Venue: Breakout Rooms: 060B)**SESSION : 3: IOT & Data Science****SESSION CHAIR: (Online Rapporteur: Prof. Arindam Deb, Prof. Monali Das)****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	1571239788	The Impact of Gamification: An Analysis of Implemented Gamification in E-Learning Application	Evan Satrio Dermawan, Kevin Petersen, Steven Yong and Thomas Galih Satria (Bina Nusantara University, Indonesia)
11:30 A.M--11:45 A.M	1571242890	Trust and Ethical Governance in the Metaverse	Fahad Mira, Mira Fahad (University of Bedfordshire, United Kingdom (Great Britain) & London, United Kingdom (Great Britain))
11:45 A.M-12:00 P.M	1571264719	Battling Youth Disorientation in Teenagers Through Serious Games	Clarabelle Karin Wijaya and Jeslyn Marianne Djunaidy (BINUS University, Indonesia); Natania Kurniawan (Binus University, Indonesia); Rakata Amadeus Sihombing (BINUS University, Indonesia); Galih Dea Pratama and Muhamad Fajar (Bina Nusantara University, Indonesia)
12:00 P.M-12:15 P.M	1571271539	Brick Design Metamorphosis in Vertical Greens for Urban and Interior Living Walls-by-Hand Coding in Architectural Pedagog	Samar Allam, Jassy Peter, Hoda Raafat, Shihab Abdelahliem, Nourhan ElSayed and Katrin Khalaf (King Salman International University, Egypt)
12:15 P.M-12:30P.M	1571253780	The EU Data Act and the Implications for the IoT	Lorenzo Vangelista (University of Padova, Italy)
12:30 P.M-12:45 P.M	1571254879	Edge-IoT Enabled Precision Agriculture: Multispectral Drone Data for Intelligent Crop Health Monitoring	Sahil Khushal Wakode (Indian Institute of Technology, Kharagpur, India); Arundhati Boruah (Indian Institute of Technology Kharagpur, India); Shyamal Das Mandal (IIT Kharagpur, India)
12:45 P.M-01:00 P.M	1571255096	LLM Embedded Cyber Physical System for Adaptive Decision Making	Sina Khoshgoftar (Nottingham Trent University, United Kingdom (Great Britain)); Azfar Khalid (Nottingham Trent University, United Arab Emirates); Reza Vatankhah Barenji (Nottingham Trent University, United Kingdom (Great Britain))

DAY 1: :: PARALLEL SESSIONS (Venue: Lecture Theatre LT 207)

SESSION : 4: Artificial Intelligence & Machine Learning

SESSION CHAIR: Prof. Mohamed Mamad (Ibn Tofail University, Morocco) (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	1571254979	Forecasting Culinary Shifts: A Comparative Analysis of Machine Learning Models for Food Trend Detection Using Social Media Data	Raj Shri Krishnam and Ishaan Agrawal (Indraprastha Institute of Information Technology, Delhi, India); Ganesh Bagler (IIIT-Delhi, India)
02:15 P.M-02:30 P.M	1571234897	HMAIDS: A Hierarchical Multi-Agent Framework for Adaptive and Explainable Intrusion Detection	Ola Suaifan (Montclair State University, USA); Vaibhavi Tiwari (Montclair State University, USA & NYC DOHMH, USA); Ramy Othman and Katherine G. Herbert (Montclair State University, USA)
02:30 P.M-02:45 P.M	1571265224	An Explainable Decision Support System for Alzheimer's Detection Using Deep Learning on MRI Scans	Saeed Bin Mizan, Samad Abbas, Mohamed Eltamamy, Muhammad Siddiqui and Salam Dhau (American University of Sharjah, United Arab Emirates)
02:45 P.M-03:00 P.M	1571266975	Latent Diffusion Based Video Frame Interpolation for Intermediate X-Ray Projection Generation in 4D-CBCT	Arwa Bayoumy and Salam Dhau (American University of Sharjah, United Arab Emirates)
03:00 P.M-03:15 P.M	1571254454	Interpretable AI for Clinical Decision Support: A Comparative Analysis of Machine Learning and Deep Learning Models	Venkatesh Ankarla Sri Ramuloo (University of the Cumberland, USA); Sanjay Kumar Polampally (Valparaiso University, USA); Ashok Morsu (ThermoFisher, USA); Lokesh Vegi (USA); Venugopala Reddy Kusam (PepsiCo, USA & Microsoft, USA); Sumanth Banakar (University of the Cumberland, USA)
03:15 P.M-03:30 P.M	1571254535	Natural Language Processing for Clinical Trial Recruitment: Performance and Statistical Analysis on Simulated Medical Data	Sumanth Banakar and Venkatesh Ankarla Sri Ramuloo (University of the Cumberland, USA); Sanjay Kumar Polampally (Valparaiso University, USA); Sharat Kumar Ragunayakula (Delaware First Health, USA); Ashok Morsu (ThermoFisher, USA); Geeta Sandeep Nadella (University of the Cumberland, USA)
03:30 P.M-03:45 P.M	1571263312	AI-Based Trajectory Planning and Multi-Obstacle Avoidance for the SERS-6 Quad-Swerve Space Exploration Rover	Sean Serdar Kalaycioglu (University (TMU) & AIMechatroniX and Dr Robot Inc., Canada)
03:45 P.M-04:00 P.M	1571267336	Review of Deep Learning Applied for Compensating Thermo-Elastic Distortion	Sadben Khan and Stephen Andrew Gadsden (McMaster University, Canada)

DAY 1 :: PARALLEL SESSIONS (Venue: Breakout Rooms: 060A)

SESSION : 5: Mobile Communication

SESSION CHAIR: (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	1571254886	An Edge-Based Online Incremental Learning Framework for Smart Home Energy Management Systems	Youcef Guenfaf (University of Science and Technology Houari Boumediene, Algeria); Youcef Zafoune (USTHB, University of Algiers, Algeria); Abir M'ziane and Katia Tighedine (University of Science and Technology Houari Boumediene (USTHB), Algeria)
02:15 P.M-02:30 P.M	1571253734	ChatGPT Now Writing Scientific Papers Beyond Human Capability: The New Singularity with AI	Shahriar Khan (Independent University, Bangladesh)
02:30 P.M-02:45 P.M	1571261389	Design and Performance Analysis of a 5- 13 GHz Ultra-Wideband Frequency Selective Surface for Spatial Filtering and High Frequency Wireless Application	Sahil Mishra and Disha Pradhan (Institute of Engineering & Management, India); Souradip Ghosh (Institute of Engineering and Management, Kolkata, India); Ritam Das and Shuvayan Banerjee (Institute of Engineering and Management Kolkata, India); Sutapa Ray (Institute of Engineering and Management, India); Murari Shaw (Institute of Engineering and Management-Salt Lake, India)
02:45 P.M-03:00 P.M	1571246235	CNC Drill Wear Analysis Using Hilbert-Huang Transform and CatBoost Algorithm	Amuthakkannan Rajakannu (National University of Science and Technology, Oman); Sri Rajkavin AV (National University of Singapore, Singapore); Vijayalakshmi K, Ramachandran KP, Dinesh Keloth Kaithari and Abubacker K M (National University of Science and Technology, Oman); Jacob Wekalao (University of Science and Technology of China, China); Vishnupriyan S (University of Technology and Applied Sciences Sohar, Oman); Maamer Al tobi (National University of Science and Technology, Oman)
03:00 P.M-03:15 P.M	1571255564	Digital Twin-Assisted Solar PV Maintenance Using Artificial Intelligence and UAV-Based Monitoring: A Review	Amuthakkannan Rajakannu (National University of Science and Technology, Oman); Jacob Wekalao (University of Science and Technology of China, China); Vijayalakshmi K and Maamer Al tobi (National University of Science and Technology, Oman); Imad Al Naimi (National University, Oman); Sri Rajkavin AV (National University of Singapore, Singapore); Amer Al-Yahmadi (Soltan Quabous University, Oman)
03:15 P.M-03:30 P.M	1571255951	Simulation-to-Hardware Validation of a Model-Based Pick-and-Place Pipeline for a 4-DOF Robotic Manipulator Using Digital Twin and Physical QArm Hardware	Fadel M Lashhab (Howard University & Washington DC, USA); Shane Alexandre, Isioma Nwansoh, Sheridan Burke, Narissa Hill, Allowyne E. Madison, Jason H. Childs and Kennedy M. Rhett (Howard University, USA)
03:30 P.M-03:45 P.M	1571262473	Development of a Non-Invasive 23-DOF Wearable Exoskeleton for Human Arm Kinematic Data Acquisition	Amey Sushil Chavekar (VJTI, Mumbai, India); Ojasvi Sanjay Sonone (VJTI Mumbai, India); Sunny Kumar (VJTI, Mumbai, India); Sudhir Bhil (VJTI, India); Sushma Wagh (VJTI, Mumbai, India)
03:45 P.M-04:00 P.M	1571242150	A Novel Method for Designing Test Benches for Measuring the Parameters of Electric Motors Used in UAVs	Sergey Karamov (Novus Converged Aerospace Ltd., United Kingdom (Great Britain)); Nikolai Pilnikov (Novus Converged Aerospace Ltd, United Kingdom (Great Britain))

DAY 2: :: PARALLEL SESSIONS (Venue: Lecture Theatre LT 207)**SESSION : 6: Artificial Intelligence & Machine Learning****SESSION CHAIR: Prof. Mohamed Mamad (Ibn Tofail University, Morocco)(Online Rapporteur: Prof. Rintu Kumar Gayen, Prof. Soham Ghosh)****SESSION TIME: 10:30A.M-12:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:30A.M-10:45 A.M	1571267610	Reverse Engineering of Integrated Circuits from SEM Imagery: An Overview of Automated Pipeline Techniques	Himanshu Singh, Brett Sicard, Christopher K. Anand and Stephen Andrew Gadsden (McMaster University, Canada)
10:45 A.M-11:00 A.M	1571264523	A Neural Perron Frobenius Operator Constrained Soft Sensor with Application to Robotic Systems	Yuandi Wu (McMaster University, Canada); Stephen Andrew Wilkerson (York College of Pennsylvania, USA); Stephen Andrew Gadsden (McMaster University, Canada)
11:00 A.M-11:15 A.M	1571253235	Improving FTTH Network Reliability Through Electrical Transient Mitigation	Langha N. Pius (South Regional Directorate, Cameroon Telecommunications, Ebolowa,, Cameroon); Viranjay M. Srivastava and Wenyan Wu (Birmingham City University, United Kingdom (Great Britain))
11:15 A.M-11:30 A.M	1571253735	ChatGPT and Medical Apps Competing with Telemedicine for Medical Advice to Patients	Shahriar Khan (Independent University, Bangladesh)
11:30 A.M--11:45 A.M	1571255034	Redefining the Gaps Between the First, Second, Third and Fourth Industrial Revolutions	Shahriar Khan (Independent University, Bangladesh)
11:45 A.M-12:00 P.M	1571255182	Power Flow State Variable Estimation of IEEE 39 Bus Transmission System Network Using Multiple Linear Regression	Chokder Alamgir Bartend Russell (IUB, Bangladesh); Shahriar Khan (Independent University, Bangladesh)
12:00 P.M-12:15 P.M	1571255410	Redefining the Fourth Industrial Revolution (IR) to End with Covid, and Fifth IR Starting with ChatGPT and the New AI	Shahriar Khan (Independent University, Bangladesh)

DAY 2: :: PARALLEL SESSIONS (Venue: Lecture Theatre LT 207)

SESSION : 7: Electronics

SESSION CHAIR: (Online Rapporteur: Prof. Arindam Deb, Prof. Murari Shaw)

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	1571258807	Classification of a Quadratic Stochastic Operator Built on a Disconnected Graph by Binomial Distributions	Ibrokhimali Normatov (National University of Uzbekistan, Uzbekistan)
02:15 P.M-02:30 P.M	1571239873	Cooling System to Minimize Chemotherapy - Induced Hair Loss	Amjad Mahdi Hammad, Ali Mohammed Almusawi and Abdullah Yousef Alzahrani (Imam Abdulrahman Bin Faisal University, Saudi Arabia); Kamran Hameed (Imam AbdulRahman Bin Faisal UNiversity, Saudi Arabia); Murad Althobaiti (Imam Abdulrahman Bin Faisal University)
02:30 P.M-02:45 P.M	1571260617	Designing a Wireless Insulin Pump for Enhanced ICU Patient Care	Abdelkarim Jabali and Abdelmalek Adiche (Imam Abdulrahman Bin Faisal University, Saudi Arabia); Kamran Hameed (Imam AbdulRahman Bin Faisal UNiversity, Saudi Arabia)
02:45 P.M-03:00 P.M	1571274413	Transient Pattern Detection in Bragg Wavelength Shift Measurements in Fiber Optics Sensing Application by Deep Learning	Sankhyabrata Bandyopadhyay (University of Cambridge, UK;)
03:00 P.M-03:15 P.M	1571257746	A Novel Bipyramidal Approach of Videoimage Processing Architectures on Embedded Devices	Sergey Karamov (Novus Converged Aerospace Ltd., United Kingdom (Great Britain))
03:15 P.M-03:30 P.M	1571262493	Harmonic Attenuation Through Cascaded Multilevel Inversion: A Comparative Simulation Study from 3-Level to 99-Level Topologies	Manoj Pawar, Rayyan Petkar, Yash Mhatre, Samay Rajput, Udaykumar Subhash Suryawanshi and Sunny Kumar (VJTI, Mumbai, India)
03:30 P.M-03:45 P.M	1571268128	Effect of Static Synchronous Compensator (STATCOM) Placement on Grid with Different Types of Load Increment Considering Generator Power Factor	Chokder Alamgir Bartend Russell (IUB, Bangladesh); Shahriar Khan (Independent University, Bangladesh)
03:45 P.M-04:00 P.M	1571255007	Analysis of Different Types of Cantilever Beams for the Material of Steel, Aluminum & Copper Using Finite Element Methods in COMSOL Multi-Physics	Rohtash Dhiman (DCRUST MURTHAL, India); Vikas Kumar (Deenbandhu Chhotu Ram University of Science and Technology, India)

DAY 2: :: PARALLEL SESSIONS (Venue: Breakout Rooms: 060A)

SESSION : 8 : Mechatronics & Sustainable Development through Microelectronics: Opportunities and Innovations

SESSION CHAIR: Prof. Viranjay M. Srivastava (Birmingham City University, United Kingdom (Great Britain) (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	1571262416	Orientation Control System Design for a Vertical Climbing Lining Robot Using IMU Sensor Fusion and Kalman Filtering	Yomira Abigail Guzmán Piña, Joaquin Gonzalez and Miguel Cataño (Pontificia Universidad Catolica del Peru, Peru)
02:15 P.M-02:30 P.M	1571267396	Thermal and Vibrational Preliminary Study for a Robotic Arm Assembly	Emelia Pringle, Alexandre McCafferty-Leroux, Thomas French, Brett Sicard and Stephen Andrew Gadsden (McMaster University, Canada)
02:30 P.M-02:45 P.M	1571267399	A Literature Review and Preliminary Design of a Robotic Gripper	Teaken R. Brazeau (McMaster University, Canada); Patrick Kosierb (Mcmaster University, Canada); Thomas French, Brett Sicard and Stephen Andrew Gadsden (McMaster University, Canada)
02:45 P.M-03:00 P.M	1571267608	Design of a Multi-Tool End Effector for Autonomous Cell Culture	Jamie Ha, Nicholas Grzelak, Brett Sicard, P. Ravi Selvaganapathy and Stephen Andrew Gadsden (McMaster University, Canada)
03:00 P.M-03:15 P.M	1571254537	Brick Design Metamorphosis in Vertical Greens for Urban and Interior Living Walls; By-Hand Coding in Architectural Pedagogy	Samar Allam (King Salman International University, Egypt)
03:15 P.M-03:30 P.M	1571256128	Options for Generating Increasing Power for Data Centers	Shahriar Khan (Independent University, Bangladesh); Chokder Alamgir Bartend Russell (IUB, Bangladesh)
03:30 P.M-03:45 P.M	1571257884	Using Grok to Avoid Personal Attacks While Correcting Misinformation on X	Kevin Matthe Caramancion (Naval Postgraduate School, USA & Western Governors University, USA)