



IEMTRONICS

International Conference



IEMTRONICS 2024

Hybrid Conference

International IOT, Electronics and Mechatronics Conference 2024
Imperial College London, United Kingdom
3rd-5th April, 2024

TECHNICAL SCHEDULE: CONTENT

Venue: Skempton Building, Imperial College London

	EVENTS	Physical Location	Online Link	TIMING*
DAY 1: 3 rd April, 2024	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	Main Room: LT 207		9:00 A.M – 9:20 A.M
	KEYNOTE ADDRESS 1: Professor Aldo Faisal, Professor, Imperial College London, London, United Kingdom	Main Room: LT 207		9:30 A.M – 10:15 A.M
	KEYNOTE ADDRESS 2: Prof. David Brown, Professor in Interactive Systems for Social Inclusion, Nottingham Trent University, United Kingdom	Main Room: LT 207		10:15 A.M – 11:00 A.M
	Mid Morning Refreshment			11:00A.M-11:15 A.M
	Parallel Technical Paper Presentation Sessions 1:	Breakout Rooms: 060A		11:15A.M-01:15 P.M
	Parallel Technical Paper Presentation Sessions 2:	Main Room: LT 207		11:15A.M-01:15 P.M
	Lunch & Networking Session			01:15 P.M-02:15 P.M
	Parallel Technical Paper Presentation Sessions 3:	Breakout Rooms: 060A		02:15 P.M-04:15 P.M
	Parallel Technical Paper Presentation Sessions 4:	Main Room: LT 207		02:15 P.M-04:15 P.M
	Evening Refreshment			04:30P.M-05:00P.M

Venue: Skempton Building, Imperial College London

	EVENTS	Physical Location	Online Link	TIMING*	
DAY 2: 4 th April, 2024	Registration	BOSS Space A&B		8:00 A.M-8:50 A.M	
	Morning Refreshment				8:00 A.M-8:50 A.M
	KEYNOTE ADDRESS 3: Dr. Simon Colton, Professor of Computational Creativity, AI and Games Game AI Group, EECS, Queen Mary University of London SensiLab, Faculty of IT, Monash University	Main Room: LT 207			
	KEYNOTE ADDRESS 4: Mr. Shantanu Goswami, VP BTP Strategy & Industry Usecases EMEA, United Kingdom	Main Room: LT 207			
	PLENARY ADDRESS 5: Dr. Biswajoy Chatterjee, Vice Chancellor, University of Engineering & Management, Jaipur, India	Main Room: LT 207			
	Mid Morning Refreshment				
	Parallel Technical Paper Presentation Sessions 5:	Breakout Rooms: 060A			
	Parallel Technical Paper Presentation Sessions 6:	Main Room: LT 207			
	Lunch & Networking Session				
	Parallel Technical Paper Presentation Sessions 7:	Breakout Rooms: 060A			
	Parallel Technical Paper Presentation Sessions 8:	Main Room: LT 207			
	Evening Refreshment				

Venue: Skempton Building, Imperial College London

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

	EVENTS	Physical Location	Online Link	TIMING*
DAY 3: 5 th April, 2024	Registration	BOSS Space A&B		8:00 A.M-8:50 A.M
	Morning Refreshment			8:00 A.M-8:50 A.M
	KEYNOTE ADDRESS 6: Professor Yang Gao, Professor, FIET FRAeS, King's College London, United Kingdom	Main Room: LT 207		9:00 A.M – 9:45 A.M
	KEYNOTE ADDRESS 7: Dra. Petia Ivanova Radeva, Universitat de Barcelona, Spain (Virtual Presentation)	Main Room: LT 207		9:45 A.M-10:30 A.M
	Mid Morning Refreshment			10:45A.M-11:00 A.M
	Parallel Technical Paper Presentation Sessions 9:	Breakout Rooms: 060A		11:00 A.M- 01:00 P.M
	Parallel Technical Paper Presentation Sessions 10:	Main Room: LT 207		11:00 A.M- 01:00 P.M
	Lunch & Networking Session			01:00PM-02:00PM
	Distinguished Global Leadership Awards Ceremony	Main Room: LT 207		02:00PM-03:00PM
	Valedictory Session	Main Room: LT 207		03:00PM-03:45PM
	Evening Refreshment			03:45PM-04:15PM

Shading category in schedule	Mode of Presentation
	Physical Presentation
	Virtual Presentation

DAY 1: 3rd April, 2024:: PARALLEL SESSIONS : 1**SESSION : 1: Cognitive Systems****SESSION CHAIR: Dr. Pravir Malik (Deep Order Technologies, USA) (Online Rapporteur: Prof. Anindita Das Bhattacharya, Prof. Ardhendu Kundu, Prof. Mihir Lal Saha)****SESSION TIME: 11:15 A.M-01:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1570995335	Analysis of Fatigue Characteristics in Muscle Groups Using the FreeEMG 1000	Bakhtiyor Makhkamov, Kamoliddin Shukurov and Alokhan Kakhkharov (Tashkent University of Information Technologies, Uzbekistan); Shokhrukhmirzo Kholdorov (Tashkent University of Information Technologies Named After Muhammad Al-Khwarizmi, Uzbekistan); Dilshodbek Mamajonov (Andijan State University, Uzbekistan)
11:30 A.M--11:45 A.M	1570986763	"Tony" Glove: Facilitating Interaction with the Environment for Children with Visual-Spatial Deficit	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Piero Calderon Mendez, Nilmar Arones Chuchon, Ruben Cespedes Aliaga, Wilman Alca Alfaro and Manuel Ipenza Negri (Universidad ESAN, Peru); Jaime Huaytalla (Universidad Continental, Peru); Eber J. Ballon Alvarez (Universidad ESAN, Peru)
11:45 A.M-12:00 P.M	1570986895	Dave Octopus Prototype to Relieve for Children with Asperger's Syndrome	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Leslie Neciosup Saavedra, Meyly Mendoza Cobeñas, Abdon Carrasco Cierto, Stephano Rivadeneyra Huaman and Brandon Valenzuela Cubas (Universidad ESAN, Peru); Jaime Huaytalla (Universidad Continental, Peru); Eber J. Ballon Alvarez (Universidad ESAN, Peru)
12:00 P.M-12:15 P.M	1570987495	Proposal for a Technological Model to Manage Dyslexia in Childhood with Rodolfo	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Hector Valcarcel Castillo (Universidad Continental, Peru); Jefferson Garay Santos, Steven Espinoza Ruiz, Frayder Meza Morveli, Ronal Mora Aybar, Camila Ticona Sanchez and Eber J. Ballon Alvarez (Universidad ESAN, Peru)
12:15 P.M-12:30P.M	1570992617	AquaLynk: Connected Pisciculture Using Internet of Things (IoT)	Arkaprava Paul (Institute of Engineering & Management, India); Dibyardarshi Das (IEM Kolkata, India)
12:30 P.M-12:45 P.M	1570991672	Design of a 4DoF Active Upper Limb Exoskeleton to Rehabilitate Osteoarthritis Injuries in Elderly	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Sebastian Loayza Bautista, Ariana Ponce Bohorquez, Andrea Flores Leyva and Renato Diaz Sanchez (Universidad de Ingeniería y Tecnología - UTEC, Peru); Hector Valcarcel Castillo (Universidad Continental, Peru)
12:45 P.M-01:00 P.M	1570999049	Proof of Concept of a Monitoring System for Disease Detection in Poultry Farms Using Computer Vision	Kenverly Quispe Yauri, Rony Laura Lozano, Jezzy James Huaman Rojas, Roger Fernando Asto Bonifacio and Paul Frank Maravi Lizarraga (Universidad Continental, Peru)
01:00 P.M-01:15 P.M	1570999060	Assistive Robot for the Process of Therapies in Children with Autism at the Special Center for Basic Education of Huancayo: A Proof of Concept	Paul Frank Maravi Lizarraga, Roger Fernando Asto Bonifacio, Kenverly Quispe Yauri and Jezzy James Huaman Rojas (Universidad Continental, Peru)

DAY 1: 3rd April, 2024:: PARALLEL SESSIONS : 1**SESSION : 2: Cognitive Systems****SESSION CHAIR: Dr. Madhu S Gaur (G.L. Bajaj Institute of Technology and Management, India) (Online Rapporteur: Prof. Indranil Maity, Prof. Samit Karmakar)****SESSION TIME: 11:15A.M-01:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1570987991	An Approach to Design a Cost-Effective Thermocycler for Polymerase Chain Reaction	Kamran Hameed (Imam AbdulRahman Bin Faisal UNiversity, Saudi Arabia); Syed Mehmood Ali, Ijlal Shahrukh Ateeq, Sana Ijlal Shahrukh, Rana Jamal Hourani and Uzma Ali (Imam Abdulrahman Bin Faisal University, Saudi Arabia)
11:30 A.M-11:45 A.M	1570998769	Enhancing ECG Heartbeat Signal Classification Through Multi-Step Preprocessing and Machine Learning Model Optimization	Samyak Shrimali, Ansh Tulsyan and Shaan Om Patel (UIUC, USA)
11:45 A.M-12:00 P.M	1570998613	An Analytical Study of Text Summarization Techniques	Bavrabi Ghosh (Institute of Engineering & Management, India); Aritra Ghosh (Institute of Engineering & Management, Kolkata & Institute of Engineering and Management, Kolkata, India); Subhojit Ghosh (Institute of Engineering & Management, Kolkata, India); Anupam Mondal (Institute of Engineering and Management, India)
12:00 P.M-12:15 P.M	1570995333	Enhancing Paralympic Athlete Performance: Kinematic Analysis and Computer Information Systems for Optimal Training Load Adjustment	Kamoliddin Shukurov (Tashkent University of Information Technologies, Uzbekistan); Mekhriddin Mirjamolov (Physical Education and Sports Scientific Research Institute, Uzbekistan); Shokhrukhmirzo Kholdorov (Tashkent University of Information Technologies Named After Muhammad Al-Khwarizmi, Uzbekistan); Nodira Malikova (Tashkent University of Information Technologies, Uzbekistan)
12:15 P.M-12:30 P.M	1570990211	Supercapacitor-Based Power Supply for Embedded System Applications	Ahmad Al Nabulsi (American University of Sharjah, United Arab Emirates); Ahmed Elwakil (University of Sharjah, United Arab Emirates); Assim Sagahyroon and Fadi Aloul (American University of Sharjah, United Arab Emirates)
12:30 P.M-12:45 P.M	1570987272	Exploring Mangrove Complexity with Gate-Based Fractal Analysis Through AND Circuitry	Anindita Das Bhattacharjee (Institute of Engineering and Management, Kolkata, India); Somdatta Chakravortty (Maulana Abul Kalam Azad University of Technology, India); Veena Venugopal and Sumedha Basu (Institute of Engineering and Management, India); Debi Majumdar (University of California, Santa Cruz, USA)
12:45 P.M-01:00 P.M	1570987280	Quantifying Boundary Complexity Using Fractal Dimension Analysis for Natural Object	Anindita Das Bhattacharjee (Institute of Engineering and Management, Kolkata, India); Somdatta Chakravortty (Maulana Abul Kalam Azad University of Technology, India); Sumedha Basu and Veena Venugopal (Institute of Engineering and Management, India); Debi Majumdar (University of California, Santa Cruz, USA)

DAY 1: 3rd April, 2024:: PARALLEL SESSIONS : 2**SESSION : 3: Electronics****SESSION CHAIR: Dr. Madhu S Gaur (G.L. Bajaj Institute of Technology and Management, India) (Online Rapporteur: Prof. Sutanu Ghosh, Prof. Samit Karmakar)****SESSION TIME: 02:15 P.M-04:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:15 P.M-02:30 P.M	1570980338	IoT Guardian: An Intelligent Framework for Multi-Class Intrusion Detection with Machine Learning	Alavikunhu Panthakkan (University of Dubai, United Arab Emirates); Wathiq Mansoor (University OF Dubai, United Arab Emirates)
02:30 P.M-02:45 P.M	1570998675	Discharging Inductors and Capacitors with Superconductivity, Analyzed with Duality of Charge	Shahriar Khan (Independent University, Bangladesh)
02:45 P.M-03:00 P.M	1570998997	Infinite and Zero May Have Similar Applicability for Engineering Analysis	Shahriar Khan (Independent University, Bangladesh)
03:00 P.M-03:15 P.M	1571002981	Design of an HMI Interface for Monitoring and Control of Environmental Parameters in Tilapia Culture	Emerson I Nuñez Ovalle, Alem Huayta Uribe, Emerson W Bullon Gozar, Kevin R Carhuachuco Condezo, Alexis H Mayta Leon and Manuel Michael Beraún-Espíritu (Universidad Continental, Peru)
03:15 P.M-03:30 P.M	1571003480	Design of an HMI System for Monitoring and Controlling the Artichoke Dehydration Process	Alem Huayta Uribe, Alexis H Mayta Leon, Manuel Michael Beraún-Espíritu, Kener Velasquez Colorado and Caszely E Pucllas Aquino (Universidad Continental, Peru)
03:30 P.M-03:45 P.M	1570999335	Robust Estimation Strategies for a Nonlinear Satellite System	Alexandre McCafferty-Leroux, Brett Sicard and Stephen Andrew Gadsden (McMaster University, Canada); Mohammad AlShabi (University of Sharjah, United Arab Emirates)
03:45 P.M-04:00 P.M	1570998941	Development of an Approach to Analysis and Classification of EMG Signals for Prosthesis Control	Bakhtiyor Makhkamov (Tashkent University of Information Technologies, Uzbekistan)

DAY 1: 3rd April, 2024:: PARALLEL SESSIONS : 2**SESSION : 4: Mechatronics****SESSION CHAIR: Dr. Aparna Varde (Montclair State University, USA) (Online Rapporteur: Prof. Gobinda Sen, Prof. Sutapa Ray Adhikary)****SESSION TIME: 02:15 P.M-04:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:15 P.M-02:30 P.M	1570992432	Design of a Lower Limb Exoskeleton Prototype for Patients with Motor Disabilities Using VDI 2206 + Pahl & Beitz Methodology	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Rodrigo Aique (Universidad de Ingeniería y Tecnología - UTEC, Peru); Christoffer A. Vasquez-Chirito (Universidad de Ingeniería y Tecnología UTEC, Peru); Adrián Sasieta (Universidad de Ingeniería y Tecnológica - UTEC, Peru); Josue Abad (Universidad de Ingeniería y Tecnología - UTEC, Peru); Hector Valcarcel Castillo (Universidad Continental, Peru)
02:30 P.M-02:45 P.M	1570990199	Analysis of Step Up or Boost Converter Design for Charging Station of Electric Vehicles	Devasis Pradhan (Acarya Institute of Technology & Acharya Institute of Technology, Bangalore, India); Hla Myo Tun (Yangon Technological University & King Lauk Phya Institute of Technology Myaungmya, Myanmar)
02:45 P.M-03:00 P.M	1570998893	Opinion Mining on Offshore Wind Energy for Environmental Engineering	Isabele Bittencourt, Aparna Varde and Pankaj Lal (Montclair State University, USA)
03:00 P.M-03:15 P.M	1570998411	An Imaginative Inquiry into a Quaternary Interpretation of Quantum Dynamics & Its Technological Implications	Pravir Malik (Deep Order Technologies, USA)
03:15 P.M-03:30 P.M	1570995091	The Miniature Tesla Coil: Improved Construction and Performance	Simoom Rahman (Independent University, Bangladesh, Bangladesh); Shahriar Khan (Independent University, Bangladesh)
03:30 P.M-03:45 P.M	1571002788	Revolutionizing E-Commerce Customer Service: Leveraging GPT-Powered AI Chatbots to Bridge the User Expectation Gap	Azza Mohamed Basiouni (Liwa College & British University in Dubai, United Arab Emirates)
03:45 P.M-04:00 P.M	1570985189	Stock Price Prediction Using Sentiment Based LSTM: S&P500 Vs Reddit Posts	Oladapo Richard-Ojo and Hayden Wimmer (Georgia Southern University, USA)
04:00 P.M-04:15 P.M	1570996416	Mobile Application Security: Malware Threat and Defenses	Fahad Mira, MIRA FAHAD (University of Bedfordshire & JEDDAH 21431, Saudi Arabia)

DAY 2: 4th April, 2024:: PARALLEL SESSIONS : 3			
SESSION : 5: Information Technology			
SESSION CHAIR: Dr. Aparna Varde (Montclair State University, USA) (Online Rapporteur: Prof. Murari Shaw, Prof. Aparna Biswas)			
SESSION TIME: 11:15A.M-01:15 P.M			
PARTICIPATION LINK:			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1570992764	Features of Data Collection and Software Tool Architecture for Performing Predictive Analysis of Phenomena Leading to Forest Fires	Hlib Nekrasov (National Research University Higher School of Economics, Russia)
11:30 A.M-11:45 A.M	1571000286	Optimizing k-Nearest Neighbor for Color Detection	Omer Al Sumeri and Luis Villanueva (California State University Fresno, USA); Drake Sheela (California State University-Fresno, USA); Hitender Singh Sidhu and Jacob Luscomb (California State University Fresno, USA); Shahab Tayeb (California State University, Fresno, USA)
11:45 A.M-12:00 P.M	1571002498	Detection of Watermarks in Digital Images Using Filter Techniques and Convolutional Neural Networks	Vanessa Angelica and Irmawati Irmawati (Universitas Multimedia Nusantara, Indonesia)
12:00 P.M-12:15 P.M	1571000454	Size-Adaptive Convolutional Neural Network with Parameterized-Swish Activation for Enhanced Object Detection	Yashwanth Raj Venkata Krishnan (Purdue University, Egypt); Mohamed El-Sharkawy (Purdue School of Engineering and Technology, USA)
12:15 P.M-12:30 P.M	1570998265	Review Paper on the Use Cases & Types of Virtual Reality	Pratik Chakraborty (Institute of Engineering and Management, India)
12:30 P.M-12:45 P.M	1570995130	Analysis of an Inexpensive Robotic Arm Implemented with Arduino	Sajid Ahmed Chowdhury (Independent University Bangladesh, Bangladesh); Shahriar Khan (Independent University, Bangladesh); A. F. M. Afnan Uzzaman Sheikh (Independent University Bangladesh, Bangladesh)
12:45 P.M-01:00 P.M	1570995359	Synthetic Datasets for Hand Gesture Recognition	Pranav Vaidik Dhulipala, Samuel Oncken and Steven Claypool (Texas A&M University, USA); Stavros Kalafatis (Texas A&M University, USA)
01:00 P.M-01:15 P.M	1570999120	Heart Rate Measurement Using Face Recognition Techniques and Sensors	Tan Hao Ze (Multimedia University, Malaysia); Sumendra Yogarayan (Multimedia University (MMU), Malaysia); Siti Fatimah Abdul Razak and Mohd Fikri Azli Abdullah (Multimedia University, Malaysia); Afizan Azman (Taylor's University, Malaysia)

DAY 2: 4th April, 2024::PARALLEL SESSIONS : 3			
SESSION : 6: IOT & Data Science			
SESSION CHAIR: Dr. Pravir Malik (Deep Order Technologies, USA) (Online Rapporteur: Prof. Rintu Kumar Gayen, Prof. Dipankar Saha, Prof. Soumik Kumar Kundu)			
SESSION TIME: 11:15A.M-01:15 P.M			
PARTICIPATION LINK:			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:15 A.M-11:30 A.M	1570995164	ChatGPT for Design of Transformers and Machines: Implications for Open-Ended Problems	Shahriar Khan (Independent University, Bangladesh)
11:30 A.M-11:45 A.M	1570999038	Kalman Filters in IoT: A Bibliometric Analysis	Khaled Obaideen and Mohammad AlShabi (University of Sharjah, United Arab Emirates); Stephen Andrew Gadsden (McMaster University, Canada)
11:45 A.M-12:00 P.M	1570999039	Developing Cognitive Abilities in Robots: A Bibliometric Overview of AI and ML Applications	Khaled Obaideen and Mohammad AlShabi (University of Sharjah, United Arab Emirates); Stephen Andrew Gadsden (McMaster University, Canada)
12:00 P.M-12:15 P.M	1571001798	Development and Evaluation of LPWAN-Based Flood Monitoring and Warning System: Assessing Communication Range, Signal Quality, and Alert Mechanisms	Nur Adlah Mohamad Yusri (Multimedia University, Malaysia); Sumendra Yogarayan (Multimedia University (MMU), Malaysia); Siti Fatimah Abdul Razak and Mohd Fikri Azli Abdullah (Multimedia University, Malaysia); Afizan Azman (Taylor's University, Malaysia)
12:15 P.M-12:30 P.M	1570985199	Data Allocation and Replication Strategies in Edge Computing	Xiang Cao (Grand Valley State University, USA)
12:30 P.M-12:45 P.M	1570988889	Fast Software Implementation of Edwards Curves Cryptography for IOT Secure Communication Purposes	Yevgen Kotukh (Yevhenii Berezhnyak Military Academy); Ihor Koriakov (Krypton Research and Development Company Co Ltd, Ukraine); Maksym Korobchynskyi (Yevhenii Berezhnyak Military Academy, Ukraine)
12:45 P.M-01:00 P.M	1570988649	Discalcu: Mathematical Device for Children with Dyscalculia	Deyby Huamanchahua (Universidad de Ingeniería y Tecnología - UTEC, Peru); Yessenia Bravo Lazaro, Angel Aguilar Contreras, Sandro Avila Agurto and Mattias Caballero Salazar (Universidad ESAN, Peru); Jaime Huaytalla (Universidad Continental, Peru); Eber J. Ballon Alvarez (Universidad ESAN, Peru)
01:00 P.M-01:15 P.M	1570995025	Unlocking Domain Specificity: Fine-Tuning Llama 2 for Enhanced Performance on Custom Datasets	Swarnadwip Bhattacharya (Institute of Engineering and Management, India); Anindita Das Bhattacharjee (Institute of Engineering and Management, Kolkata, India); Pranab Singha Roy (Variable Energy Cyclotron Centre, India); Tapas Samanta (Variable Energy Cyclotron Centre & Department of Atomic Energy, India)

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

DAY 2: 4th April, 2024::PARALLEL SESSIONS : 4			
SESSION : 7: IOT & Data Science			
SESSION CHAIR: Prof. Stavros Kalafatis (Texas A&M University,USA) (Online Rapporteur: Prof. Anindita Das Bhattacharya, Prof. Ardhendu Kundu,, Prof. Mihir Lal Saha)			
SESSION TIME: 02:15 P.M-04:15 P.M			
PARTICIPATION LINK:			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:15 P.M-02:30 P.M	1570988905	Understanding Energy Consumption in Real-World E-IoT Systems with CoAP, RPL, and 6LoWPAN	Jiawei Lu, Kirk Martinez and Alex S Weddell (University of Southampton, United Kingdom (Great Britain))
02:30 P.M-02:45 P.M	1570989830	Augmenting Reliability in Speaker Recognition Systems Through Low Density Parity Check Codes	Nilashree MaheshMadakath Wankhede (University of Mumbai Fr. C. Rodrigues Institute of Technology, Vashi, India & Veermata Jijabai Technological Institute, Mumbai, India); Sushma Wagh (VJTI, Mumbai, India)
02:45 P.M-03:00 P.M	1571003015	Fault Tolerant Routing in IoT Based on WBAN	OUSSANE SAKINA (University of Sciences and Technology Houari Boumediene, Algeria)
03:00 P.M-03:15 P.M	1570988229	IoT Machine Learning Based Health Compliance Monitoring System	Ahmad Al Nabulsi, Salam Dhou, Abdul-Rahman Al-Ali, Rim Tawfik, Raneem Al-Qutayri, Ahmed Hamad and Adham Mossalam (American University of Sharjah, United Arab Emirates)
03:15 P.M-03:30 P.M	1570994886	An IoT-Based Mobile Air Pollution Monitoring System	Abdulaziz Alqasimi, Khalid Al Marzouqi, Abdulla Al Hammadi, Amer Al Jasmi, Ahmad Al Nabulsi and Abdul-Rahman Al-Ali (American University of Sharjah, United Arab Emirates)
03:30 P.M-03:45 P.M	1570996208	Lunar Robotics Evolution and Innovative Design	Serdar S Kalaycioglu (Toronto Metropolitan University & Canadian Space Research Inc., Canada); Anton De Ruiter (Toronto Metropolitan University, Canada); Zachary Xie (University of British Columbia and Dr Robot Inc., Canada); Jeric Jiang (Dr Robot Inc., Canada); Angelina Tseng (Dr Robot Inc, Canada); Haipeng Xie (Dr Robot Inc., Canada)
03:45 P.M-04:00 P.M	1570995157	ChatGPT for Writing Literature and Songs: End of the Road for Poets and Songwriters?	Shahriar Khan (Independent University, Bangladesh)
04:00 P.M-04:15 P.M	1570995161	ChatGPT for Solving Engineering and Math: Challenges for Education	Shahriar Khan (Independent University, Bangladesh)

DAY 2: 4th April, 2024::PARALLEL SESSIONS : 4**SESSION : 8 : IOT & Data Science****SESSION CHAIR: Dr. Shahriar Khan (Independent University, Bangladesh) (Online Rapporteur: Prof. Indranil Maity, Prof. Amit Kumar Das)****SESSION TIME: 02:15 P.M-04:15 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
02:15 P.M-02:30 P.M	1570990306	A Fourfold Quantum-Based Source of Energy	Pravir Malik (Deep Order Technologies, USA)
02:30 P.M-02:45 P.M	1570991064	Dynamic Change of Three-Dimensional Soil in Game Simulators	Aleksandr V. Belov, Artem A. Sapozhnikov and Iliya V. Semichasnov (National Research University Higher School of Economics, Russia)
02:45 P.M-03:00 P.M	1570991191	Big Data Analytics Approach with Multiple Text Types: The Case of the Computer Gaming	Aleksandr V. Belov, Feodor Zakharov, Egor Litvinenko, Ruslan Molokanov, Karina Malyshkina, Iliya V. Semichasnov and Aleksey Markin (National Research University Higher School of Economics, Russia)
03:00 P.M-03:15 P.M	1570975805	Blockchain Use in Microgrid: Quantitative Analysis	Ameni Boumaiza (ALRAYYAN & QEERI, Qatar)
03:15 P.M-03:30 P.M	1570994753	Robo-CSK-Organizer: Commonsense Knowledge to Organize Detected Objects for Multipurpose Robots	Rafael Hidalgo, Jesse Parron, Aparna Varde and Weitian Wang (Montclair State University, USA)
03:30 P.M-03:45 P.M	1570999008	RPL Attack Detection in IoT Environments: An Ensemble Approach	Ashley Etheridge and Vaibhav Anu (Montclair State University, USA)
03:45 P.M-04:00 P.M	1571000048	Parameter Identification in Magnetorheological Dampers via Physics-Informed Neural Networks	Yuandi Wu and Brett Sicard (McMaster University, Canada); Patrick Kosierb (Mcmaster University, Canada); Stephen Andrew Gadsden (McMaster University, Canada)
04:00 P.M-04:15 P.M	1570985180	Comparative Analysis of Convolutional Neural Network-Based Counterfeit Detection: Keras vs. Pytorch	Emmanuel Balogun and Hayden Wimmer (Georgia Southern University, USA)

DAY 3: 5th April, 2024::PARALLEL SESSIONS : 5**SESSION : 9: IOT & Data Science****SESSION CHAIR: Prof. Pranav Vaidik Dhulipala (Texas A&M University,USA) Online Rapporteur: Prof. Sutanu Ghosh, Prof. Amit Kumar Das)****SESSION TIME: 11:00 A.M- 01:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 A.M-11:15 A.M	1571006942	Utilization of Personalized PageRank for Protein Protein Interaction Analysis and Similarity-Based Complex Network Analysis: A Brief Review	Arjab Sengupta (Institute of Engineering and Management, India)
11:15 A.M-11:30 A.M	1571005478	Optimizing Task Handling in Mobile Edge Computing: A Dynamic Load Balancing Model with Intermediate Coordination Node and Nearest Neighbor Integration	Hoa Nguyen.Thanh Doan. (Technical University of Ostrava, Vietnam); Phu Ngoc Thien Nguyen, Nghia Duc Phan, Anh Nguyen Phan Tuan and Lap. Hoang Van (FPT University, Vietnam)
11:30 A.M-11:45 A.M	1570974704	AI Algorithms for Dynamic Bandwidth Management in Wireless Networks	Nani Arabuli, Vladimer Adamia and Zaza Tsiramua (Georgian Technical University, Georgia); Ivan Miguel Pires (Instituto de Telecomunicações, Portugal); Jose Paulo Lousado (CISeD - Polytechnic Institute of Viseu, Portugal); Paulo Coelho (Polytechnic University of Leiria, Portugal); Salome Oniani (Alte University, Georgia)
11:45 A.M-12:00 P.M	1570994526	Design of Variable-Radius Kinematic Metastructures for the Control of Belt Drive Transmission Ratios	Rodrigo Carnero, Martin Starkov, Thomas Venter, Zalia Zainol, Khalid Alfawazan, Megan Hirst and Parvez Alam (The University of Edinburgh, United Kingdom (Great Britain))
12:00 P.M-12:15 P.M	1570995804	An Ideal Pulsed Electromagnetic Field Device Based on A Multidimensional Model of Light	Pravir Malik (Deep Order Technologies, USA)
12:15 P.M-12:30 P.M	1570987643	Structure of Control Computing Facilities of Data Transmission Networks and Features of Dispatch Algorithm Programs	Rahmatillo Fozilliddinovich Xudoyberdiyev (Tashkent University of Information Technology, Uzbekistan); Anvar Asqarovich Suleymanov (TIAME National Research University, Uzbekistan)
12:30 P.M-12:45 P.M	1570994943	MAPExeCPS: A Platform to Support the Commercial Value and Production Condition of Mud Crabs of the Genus Scylla Spp. in the Philippines	Rossian V Perea (Cavite State University Naic, Philippines); Enrique Festijo (Technological Institute of the Philippines, Philippines)
12:45 P.M-01:00 P.M	1570987548	Revisiting the Internet Routers' Buffers Sizing Problem	Monday Ofori Eyinagho (Afe Babalola University, Nigeria)

DAY 3: 5th April, 2024 :: PARALLEL SESSIONS : 5**SESSION : 10: Mobile Communication****SESSION CHAIR: Dr. Shahriar Khan (Independent University, Bangladesh) (Online Rapporteur: Prof. Gobinda Sen, Prof. Sutapa Ray Adhikary)****SESSION TIME: 11:00 A.M- 01:00 P.M****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 A.M-11:15 A.M	1570986428	Enhancing Power Allocation in MIMO-OFDM Systems: Latest Approaches and Algorithms	Hirwandi Agusnam (Bandung Institute of Technology, Indonesia); Irma Zakia (Institut Teknologi Bandung, Indonesia); Hendrawan Hend (Bandung Institute of Technology, Indonesia)
11:15 A.M-11:30 A.M	1570997956	A Transformer-Based Model for Network Intrusion Detection: Architecture, Classification Heads, and Transformer Blocks	Nourhan Ibrahim, Sarama Shehmir, Rasha Kashef and Aman Yadav (Toronto Metropolitan University, Canada)
11:30 A.M-11:45 A.M	1570990433	High Impedance Surfaces: Unique Properties and Applications	Sayan Sarkar (Institute of Engineering and Management (IEM), Salt Lake, India)
11:45 A.M-12:00 P.M	1570996585	Review on Ultrawide Band Multi-Input and Multi-Output Antennas with Notched Band Characteristics	Arunima Samanta (Institute of Engineering and Management, India); Srijita Chakraborty (Institute of Engineering & Management, Kolkata, India); Koushiki Ghosh (Institute of Engineering and Management (IEM), India); Shatavisha Dasgupta and Pritam Aich (Institute of Engineering and Management, India)
12:00 P.M-12:15 P.M	1570995395	A Two-Body Low-Frequency Piezoelectric Wind Energy Harvester for Environmental Sensing	Sadia Bakhtiar (Loughborough University, United Kingdom (Great Britain))
12:15 P.M-12:30 P.M	1570989531	Time Series Prediction in UAV-UGV Integrated Automation System by Deep Reinforcement Learning in Industry 4.0	Haowen Pan (Columbia University, USA); Dongfang Hou, Yuan Xing, Jason Liu and Abhishek Verma (University of Wisconsin-Stout, USA)
12:30 P.M-12:45 P.M	1571000665	Circular Split Ring Integrated Cavity-Backed SIW Antenna for Satellite Application Band	Mrinmoy Chakraborty (B. C. Roy Engineering College, India)
12:45 P.M-01:00 P.M	1570988764	Optimizing Cloud Computing Task Schedules Through Advanced Intelligent Optimization Methods	Ahmed Chiheb Ammari, Rami Al-Hmouz and Lazhar Khriji (Sultan Qaboos University, Oman); Mengchu Zhou (New Jersey Institute of Technology, USA)