



10th IEEE WIECON-ECE 2024

10th IEEE International WIE Conference on
Electrical and Computer Engineering 2024

5 - 6 October, 2024
Venue: College of Engineering, Guindy, Anna University
Chennai, Tamil Nadu, India

10th IEEE WIECON-ECE 2024 Program Schedule (December 6-7, 2024)

	Day-1: Dec 6, 2024 (Friday) (Venue: Turing Hall, Dept., of CSE)					Day-2: Dec 7, 2024 (Saturday) (Venue: Vivekananda Auditorium)		
Time	Online		Offline		Time	Online		
9.00 - 10.00 AM	Registration				9.30 - 10.00 AM	Registration & Networking		
10.00-10.40 AM	Inaugural Session Venue: Turing Hall				10.00 - 11.00 AM	Session-13 AI, Computer Networks, Security & IoT	Session- 14 AI & Humanitarian Technology	Session- 15 Climate change, ICT
10.40-11.10 AM	Keynote Session – 1 Condition Monitoring of Electrical Machines for All Electric Transportation Systems Dr. Adil Usman, Board of Directors, IEEE Industry Applications Society Chair, IEEE Student Professional Awareness (SPAx) Program					196, 213, 227, 237, 139	285, 326, 109, 195, 206, 247	21, 186, 205, 47, 339
11:10-11:30 AM	Tea Break				11.00-11.30 AM	Tea Break		
11.30 - 12.00PM	Keynote Session – 2 Driving the Energy Transition: The Role of Electric Vehicles in Grid Modernization Dr Dhivya Sampath Kumar, Singapore Institute of Technology, Singapore							
12.00 - 1.00 PM [Parallel Session-1]	Session-1 AI, Computer Networks, Security & IoT	Session-2 Antenna, Microwave, RF & Nano Engineering	Session-3 Power system & Renewable energy	Session-4 AI, Computer Networks, Security & IoT	11.30 AM 12.00 PM	Keynote Session – 4		
	10, 19, 26, 41, 43, 75	11, 89, 172, 207, 208, 263	34, 37, 42, 69, 152, 188	170, 171, 174, 234, 255	12.00 – 12.30 PM	Myth and Reality		
1:00-2:00 PM	Lunch Break				12.30 – 2.00 PM	Networking Lunch		
2.00- 3.00 PM	Session- 5 Signal, Image & Video Processing	Session- 6 VLSI, Circuits & Systems	Session- 7 Power system & Renewable energy	Session- 8 AI, Computer Networks, Security & IoT	2.00 - 3.00 PM	Panel Discussion on Inclusive Society		
	159, 165, 209, 221, 251, 338	9, 88, 151, 216, 322	223, 243, 286, 287, 319, 337	288, 318, 321, 133, 240				
3.00- 4.00 PM	Session- 9 AI, Computer Networks, Security	Session-10 Bio-medical Engg & Bio-	Session-11 Compuer vision, Graphics & HCI	Session-12 AI, HCI, VLSI, Power system	3.00 - 3.30 PM	Networking		
	85, 134, 135, 169, 316, 238	3, 14, 107, 232, 249, 308	123, 224, 241, 270, 323, 141	304, 302, 307, 161, 190	3.00 – 4.00 pm	Panel Discussion		
4:00-4:30 PM	Tea Break				4:00 - 4:30 PM pm	Valedictory		
4.30-5.30 PM	Panel Discussion				4.30 – 5.00 PM	Tea Break		
5:30-6:30 PM	Networking							
6:30-8:00 PM	Banquet Dinner							

Meeting link: https://ieeemeetings.webex.com/ieeemeetings/j.php?MTID=m66eb14410c22a9aa1c4f253735d0bb25
Meeting number: 2535 471 6864
Meeting password: b45mXmYCb9y

10th IEEE Women in Engineering Conference on Electrical and Computer Engineering (WIECON-ECE 2024)**Venue: College of Engineering, Guindy, Anna University, Chennai, India****Day 1: December 6, 2024****Meeting Link: <https://ieeemeetings.webex.com/ieeemeetings/j.php?MTID=m66eb14410c22a9aa1c4f253735d0bb25>****Meeting Number: 2535 471 6864 Meeting Password: b45mXmYCb9y****Session 1: AI, Computer Networks, Security & IoT (Online) - 12.00 PM - 01.00 PM (IST)**

Session Chairs: Dr. S. Chitrakala, Professor, AU, Dr. Angelin Gladston, Associate Professor, AU			Session Chair & Coordinator: DDr. S. Renugadevi, Assistant Professor(Sl. Gr.), AU
Paper ID	Paper Title	Authors	Institution
10	Using Ensemble of Transformers for Bragging Detection in Social Media	Sultana, Marufa*; Chy, Abu Nowshed	University of Chittagong
19	Predicting Revelation Periods of Verses of the Quran via Deep Learning	Hani, Umme*; Rahman, Dr. Ahsanur	North South University
26	A Hybrid Deep Learning Model for Intrusion Detection in IoT Networks	Akif, Md. Ahnaf; Karnayn, Mushpika; Anwar, Sayeda Suaiba*	East Delta University, Chittagong, Bangladesh
41	A Transformer-based Model for Image Caption Generation with Memory Enhancement	Ome, Shadika A*; Asaduzzaman, Dr.	Chittagong University of Engineering and Technology
43	Advancements in IoT-Based Battery Monitoring Systems for Electric Vehicles	Krishna, Dr. Teki Vamsee*; Lakshmi Prasanna Kumari, Ravuri; Tataji, Nagalla; Harika, Sailada; Venkata Ramya, Chitikineti; Saiprakash, Chidurala	Sasi Institute of Technology & Engineering Tadepalligudem
75	Multimodal Emotion Recognition Exploiting Audio, Video and Textual Features with Crossmodal Attention	Das, Avishek; Sarma, Moumita Sen; Hoque, Mohammed Moshuiul*	Chittagong University of Engineering & Technology

Session 2: Antenna, Microwave, RF & Nano Engineering (Online) - 12.00 PM - 01.00 PM (IST)

Session Chairs: Dr. D. Nirmal, Professor, Karunya Institute of Technology and Sciences, Dr. M. Gulam Nabi Alsath, Associate Professor, AU			Session Chair & Coordinator: Dr. P. Mohamed Fathimal, Assistant Professor, AU
Paper ID	Paper Title	Authors	Institution
11	Composition Dependent Structural, Electronic, Mechanical and Optical Properties of Sr3PxAs1-xCl3 using DFT Calculations	Chowdhury, Alindo*; Rasul, Md. Rifat -E-; Susan, Sunjana; Islam, Md. Rafiqul	
89	Design analysis of dual-band Reconfigurable Frequency Selective Surface unit cell for S-band and C-band application	S, RAJASRI, Boopathi Rani R	EGS Pillay Engineering College, Nagapattinam, National Institute of Technology, Puducherry

Paper ID	Paper Title	Authors	Institution
172	Bandgap Modification and Investigation of Effective Mass and Mobility of Monolayer MoS2 with Substitutional Phosphorous Doping	Arif, Mohammad Anwarul Hoque*; Das, Abhijit; Riana, Rezoana S.	Bangladesh University of Engineering & Technology
207	High-Gain 64-Element Array Antenna: Design, Simulation, and Performance Metrics for Ku-Band Satellite Communication	Rahman, Md. Suaibur ; Paul, Liton Chandra *; Alam, Tajdid UI ; Khan, Asif Ahmed ; Rani, Tithi; ALAM, MD MAHABUB; Islam, Dr. Md. Fokhrul	Rajshahi University of Engineering and Technology, Bangladesh
208	RF link study for WSN deployment at Himalayan terrains	Daiya, Vinita*; Kothari, Sukant; EBENEZER, JEMIMAH; Jehadeesan, R	Indira Gandhi Centre for Atomic Research, IGCAR Kalpakkam
263	Rectenna-Based Wireless Power Transfer for Implantable Bioelectronic Devices	Islam, Akib Jayed *; Salehin, Sultanus; Pranta, Swapnil; Das, Nobel; Paul, Shreya; Pavel, Tanvir Ahamed; Alam, Sayem UI	National Institute of Technology Tiruchirappalli (NIT Trichy) & Norwegian University of Science and Technology, Norway

Session 3: Power system & Renewable energy (Online) - 12.00 PM - 01.00 PM (IST)

Session Chairs: Dr. N.B. Muthu Selvan, Associate Professor, SSNCE, Dr. K. K. Nagarajan, Associate Professor, SSNCE	Session Chair & Coordinator: Ms. M. S. Karthika Devi, Assistant Professor,
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Paper ID	Paper Title	Authors	Institution
34	Design and Simulation of an On-grid Rooftop Photovoltaic System for University Campus: A Case Study of Northern University Bangladesh	Hasan, Mahmudul ; Redwan, Rahat; Al Rafi, Abdullah A; Talukder, Khadiza; Nawreen, Nusraat; CHOWDHURY, NAHID-UR-RAHMAN*	Ahsanullah University of Science and Technology
37	Design Optimization and Techno-Economic Analysis of Off-grid Hybrid Energy Systems for Sustainable Rural Electrification in Bangladesh	Dey, Pronay; Baidya, Himalay; Zisan, Md. Tarak Rahman; Hasan, Mahmudul ; Redwan, Rahat; Hossain, Mehnaz; CHOWDHURY, NAHID-UR-RAHMAN*	Ahsanullah University of Science and Technology
42	Economic, Technical and Environmental Feasibility Assessment of Microgrid Systems for Schools in Low-Income Countries	Safi, Md.*; Chowdhury, Shawon; Rana, Md Masud; Islam, Rifah Tasnim	Daffodil International University
69	Optimal Techno-economic Modeling of Solar PV-based Filling Stations: A Case Study in Bangladesh	Redwan, Rahat; Talukder, Khadiza; Hasan, Mahmudul ; Zarin, Nusrat Anjum; Tasnim , Nuren ; CHOWDHURY, NAHID-UR-RAHMAN*	Ahsanullah University of Science and Technology
152	Size Optimization and Sensitivity Analysis of HRES of a Rural Off-grid School in Bangladesh	Subrina, Samia*; Jawad, Atik; SADIA, NUR NABILA; Hossain, Md. Jahed	Bangladesh University of Engineering and Technology (BUET)

Paper ID	Paper Title	Authors	Institution
188	Development of a Dual-Operation Grid-Connected Rooftop PV System with Capacity and Space Optimization under NEM Guidelines in Bangladesh	Choudhury, Rukhsana *; Hashmi, Galib	University of Liberal Arts Bangladesh

Session 4: AI, Computer Networks, Security & IoT (Offline) - 12.00 PM - 01.00 PM (IST)			
Venue: Turing Hall			
Session Chairs: Dr. S. Bose, Professor, AU, Dr. R. Arockia Xavier Annie, Associate Professor, AU			Session Chair & Coordinator: Dr. Soma Prathiba, Professor, SSEC
Paper ID	Paper Title	Authors	Institution
170	IV3BoostPCOS: A Comprehensive Polycystic Ovary Syndrome (PCOS) Detection Framework	Sekar, Umaa Mahesswari G*; Maheswari, Dr. P. Uma; Balaji, Harini Priya	College of Engineering, Guindy, Anna University
171	AI-Driven Deep Learning: Classifying Coral Reef Health with VGG19 and ResNet50	Paul, Steffy Sherly P*; Velvizhy, P; P, Matan; M, Gayathri	College of Engineering, Guindy, Anna University
174	S-CIEL*a*b* based quality assessment of images restored from non-Gaussian-noise-corrupted-images and non-linear-bilateral-kernal based restoration	Barre, Prabhakar Rao*; Prasad, Shraddha; Pamula, Vinay Kumar; Chatla, Raja Rao; Duddu, Mahendra Babu; Pulipati, John Paul	Jharkhand Rai University, Ranchi
234	The Role of AI in Vehicle-to-Infrastructure Communication for Tolling Systems	Partheeban , Pachaivannan*; Mahalakshmi, S; BASKARAN, NITHIYA; Prakash, Kowsalyadevi; S, Arjun	Chennai Institute of Technology
255	Tuberculosis Diagnosis in Chest X-rays via Transfer Learning Techniques	T, Keerthana; K , Jayakumar; V , Iyyappan; S, Shopika; X L, Sowmiya; Ponnusamy, R*	Chennai Institute of Technology

Session 5: Signal, Image & Video Processing (Online) - 02.00 PM - 03.00 PM (IST)			
Session Chairs: Dr. P. Geetha, Professor, AU, Dr. T. Raghuveera, Associate Professor, AU			Session Chair & Coordinator: Dr. P. Velvizhy, Assistant Professor(Sl. Gr.), AU
Paper ID	Paper Title	Authors	Institution
159	Enhanced Pomegranate Grading Using InceptionResNetV2 with Transformer Integration	Kiran, V. Gopi ; Babu, T. Hemanth; A, Vidula N; Singh, Rimjhim Dr.*	Amrita Vishwa Vidyapeetham
165	Enhancement of Cassava Leaf Disease Detection using InceptionNet and Squeeze & Excitation Attention Mechanism	Alagawadi, Anusha P; C G, Arunbalaji; Shividutt, Sahen; Singh, Rimjhim Dr.*	Amrita Vishwa Vidyapeetham

Paper ID	Paper Title	Authors	Institution
209	A New Method of Image Encryption with Fingerprint Biometric Authentication using DNA Sequencing	Rajamohan, Jayabal; Pooja, L; Annapoorani, Ramachandran ; Viyola Roshni, A.X.B ; Santhi, B; Priya, S*; R, Sivaraman	SASTRA Deemed to be University India
221	Comparative Study of Deep Learning Models for Autism Diagnosis in Children Using Image Analysis	Hassan, Mahmudul*; Monsoor, Razin Sumyta Sumyta; Tamanna, Tania Sultana; Hoque, Shehrin; Ridwan, Rageeb Mohammad; Dr. Md. Ashraful Alam, Prof.	
251	Positioning Systems for Underground Mines	SAICHARAN, ERAVELLI; Bakshi, Saikat Ch; Pramanik, Ankita*; Roy, Gopal Chandra	Indian Institute of Engineering Science and Technology, Shibpur
338	A Comparative Analysis of Multi-Plant Disease Detection and Classification Using Neural Network Architectures	Majumder, Sweetly Rani ; Islam, Akib Jayed *; Salehin, Sultanus; Bhowmik, Subashis Roy; Amrine, Ms.Taofica; Nur, Shafayet	Norwegian University of Science and Technology, Norway

Session 6: VLSI, Circuits & Systems (Online) - 02.00 PM - 03.00 PM (IST)

Session Chairs: Dr. Sangeetha R G, Professor,VIT, Dr. S. Esther Florence, ASP, AU			Session Chair & Coordinator: Dr. M. Arun, Panimalar University
Paper ID	Paper Title	Authors	Institution
9	A Hybrid Artificial Rabbits Optimization Algorithm to Design FIR Filter and its FPGA Implementation	AICH, RAINA MODAK*; Dhabal, Supriya; Venkateswaran, Palaniandavar	Jadavpur University
88	Performance Analysis of Crossover Ring Oscillator PUF Using Transmission Gate Logic Multiplexer	Amin, Faisal*; Akash, Raihan Khan; Ahmed, Samiha; Hossain, Fakir Sharif	Ahsanullah University of Science & Technology
151	An Enhanced Approximate Multiplier using Error-Report Propagation Full Adders	N, Prajwal ; Reddy, Suhas J ; M, vinodhini*	Amrita Vishwa Vidyapeetham
216	Design and Performance Evaluation of OTFT and CMOS Logic gates	Redwan, Rahat*; Samad, Bushra; Tasnim , Nuren	
322	Low voltage Feedback based Folded Flipped Source follower for wide operating range	Dadheech, Astha*; Raj, Nikhil; Rawal, Divyang	LNM Insititute of Informarion Technology

Session 7: Power system & Renewable energy (Online) - 02.00 PM - 03.00 PM (IST)

Session Chairs: Dr. R. Ramaprabha, Professor, SSNCE, Dr. V. Thiyagarajan, Associate Professor, SSNCE			Session Chair & Coordinator: Dr. S. Kirthica, Assistant Professor, AU
Paper ID	Paper Title	Authors	Institution

Paper ID	Paper Title	Authors	Institution
223	Optimizing Electric Vehicle Charging Hours with Machine Learning: Integrating Solar and Wind Power	Rahman, Md. Motinur*; Saha, Subrata; Hasan, Md Mahmudul; Alam, Md Mahbub; Dadon, Saikot Hossain; Suki, Tahmid Tamrin	Arkansas State University, USA
243	Assessing Energy, Economic, and Environmental Aspects of Electric Vehicle Charging Station for Three-Wheelers	Shehzad, Md.; Hasan, Sayeed; Ahmed, S.M. Masum; Zeyad, Mohammad*; Jui, Fahmida Sharmin	Southern University Bangladesh, Chattogram, Bangladesh.
286	Wind Speed Forecasting for Wind Turbines Using Attention-Based Machine Learning Models	Anubhove, Md Sadik Tasrif; Ahmed, S.M. Masum; Zeyad, Mohammad*; Aka, Asmay Ajma Khanam	Advanced Bioinformatics, Computational Biology and Data Science Laboratory, Bangladesh
287	Optimal Design and Techno-economic Feasibility Analysis of Hybrid Renewable Energy System	Ahmed, Fahim*	Leading University
319	Technical Design of Grid Connected Photovoltaic (PV)-based Electric Vehicle Charging Stations in Bangladesh Perspective	Barman, Anirudha*; Choudhury, Rukhsana	ULAB, Dhaka
337	Hybrid Renewable Energy Potential of Coastal Areas: A Comparative Study for Bangladesh	Mahjabin , Maliha ; Huda, A. S. Nazmul; Islam, Mohaimenul*	Brac University

Session 8: AI, Computer Networks, Security & IoT (Offline) - 02.00 PM - 03.00 PM (IST)			
Venue: Turing Hall			
Session Chairs: Dr. V. Vetriselvi, Professor, AU, Dr. P. Uma Maheswari, Professor, AU			Session Chair & Coordinator: Dr. E. Shanmuga Priya, Assistant Professor(Sr. Gr.), AU
Paper ID	Paper Title	Authors	Institution
288	Deep Learning Based Binary Classification of Invasive Ductal Carcinoma: A Comparative Study on CNN and VIT Models	V, Nikhil; Kavya Sai, Bollimuntha ; R, Ishwariya*	Amrita Vishwa Vidyapeetham
318	Real-Time Stress Detection Using Facial Images and Convolutional Neural Networks	M, sindhu; T , Ashwin ; V, Shyam Sunder; S , Shivasankaran; P, Poongothai; Ponnusamy, R*	Chennai Institute of Technology
321	Cyberbullying Detection in Social Media with Multimodal Data using Transfer Learning	Chinnaiah, Valliyammai*; S, Monish Raaj; B L, Athish; J, Kishore Kumar	Anna University
133	Segmentation of MR Spinal Images using a 2 - Stage Semantic Framework	K, Karpagam*	CEG, Anna University

Paper ID	Paper Title	Authors	Institution
240	Leveraging Functional Near-Infrared Spectroscopy For the Assessment and Prediction of Mental Workload	A, Janani*	College of Engineering, Guindy Campus, Anna University

Session 9: AI, Computer Networks, Security & IoT (Online) - 03.00 PM - 04.00 PM (IST)			
Session Chairs: Dr. S. Sudha, Professor, AU, Dr. K. Selvamani, Assistant Professor, AU			Session Chair & Coordinator: Dr. M. Shanmuga Priya, Assistant Professor(Sl. Gr.), AU
Paper ID	Paper Title	Authors	Institution
85	Optimizing Privacy-Accuracy Trade-off in IoT Intrusion Detection: An Analysis of FedAvg and FedProx with Differential Privacy	Anwar, Sayeda Suaiba ; Hoque, Mohammed Moshul*	Chittagong University of Engineering & Technology (CUET)
134	Enhanced Mini-YOLOv7: A AI Approach for Safety Helmet Detection in the Construction Industry	A, Alice Blessie; RS, Sankarasubramanian; M, Arumuga Babu; S, Karthick; R, Keerthanadevi*; Ananthan, Bhuvanesh	PSN College of Engineering and Technology
135	A Robust Evolutionary Gravity Neocognitron Neural Network Model for Construction Cash Flow Prediction in Complex Project Management	X, Feix Joseph; G, Selvaraj; M, Arumuga Babu; S, Suresh; R, Keerthanadevi*; Ananthan, Bhuvanesh	PSN College of Engineering and Technology
238	Towards Accurate Renal Micro-Structure Segmentation: An Assessment of YOLOv8 and Mask R-CNN Models	Ahmed, Md. Estiak; Pinki, Farhana Tazmim; Abdul Quader, Mozdaher; Abdul Quader, Montaser*; Ayrin, Fateha Jannat; Anwar, Ahmed Selim; Roy, Prosenjit	Texas State University, USA
169	Fine-Tuning Large Language Models for Sentiment Classification of AI-Related Tweets	Tamanna, Ayesha Akhter ; Debnath, Rahul; Shuvo, Mahfuzur Rahman; Riad, Md Jahid Alam; Hasan, Nobanul; Roy, Prosenjit*	Prairie View A & M University, USA
316	Improving Diabetic Retinopathy Classification by Employing Convolutional Block Attention Mechanism in Modified InceptionV3 Model	Hossain, Saima*; Hossain, A. B. M. Aowlad	Khulna University of Engineering & Technology

Session 10: Bio-medical Engg & Bio-Informatics (Online) - 03.00 PM - 04.00 PM (IST)			
Session Chairs: Dr. C. Valliyammai, Professor, AU, Dr. K. Saravanan, Associate Professor, AU			Session Chair & Coordinator: Dr. P. Mohamed Fathimal, Assistant Professor, AU
Paper ID	Paper Title	Authors	Institution

Paper ID	Paper Title	Authors	Institution
3	An Advanced Cascaded UNet Architecture with Dual Attention for Bio-Medical Image segmentation	Shyam, Satirtha Paul*; Bhuiyan, Rahat Kibria; Mim, Salma Sultana; Abid Rahman, Chowdhury Mohammad	Military Institute of Science and Technology
14	Analysis of Foot-Ground interaction for assessment of various related diseases and a sole design to solve these issues	Uddin, Mohammad Rejwan*	Independent University, Bangladesh
107	A Framework for Integrating with an Eye Tracker to Reduce Pixel Error and Enable Offline Calibration in Medical Image Visualization	Islam, Akib Jayed *; Salehin, Sultanus; Paul, Shreya; Alam, Sayem Ul; ANANNA, KANIZ FATEMA	National Institute of Technology Tiruchirappalli (NIT Trichy)
232	Micro-Pointed Electrode Optimization for Platelet-RBC Separation via Dielectrophoresis: A Computational Approach with COMSOL and Fuzzy Logic	Nahar, Most. Jaytun*	Khulna University of Engineering & Technology, Khulna-9203, Bangladesh
249	Low-Cost Prosthetic Hand: Design and Manufacturing of a Multifunctional Body-Powered Solution	Nizam, Rudmila; Isha, Afroza Yesmin*; Adisha, Sunaina Rahman	
308	Machine Learning based Neuromuscular Disease Detection and Classification Using EMG Signal	EMON, MOBARAK HOSSEN MOLLAH; Akash, Ariful Hasan; Bhuiyan, Tahmid Ahmed; SHARIN, TAZIN; Sakib, Nazmus; Faruk, Tasnuva; Islam, Md Kafiul *	Independent University, Bangladesh (IUB)

Session 11: Computer vision, Graphics & HCI (Online) - 03.00 PM - 04.00 PM (IST)			
Session Chairs: Dr. V. Nagarajan, Professor, Pondicherry University, Dr. S. Kiruba Veni, ASP, AU			Session Chair & Coordinator: Dr. S. Kirthica, Assistant Professor, AU
Paper ID	Paper Title	Authors	Institution
123	Towards Enhancing Child Safety: A Deep Learning Approach to Detect Child Safe and Unsafe Objects	Khan, Fairuz Areefin ; Dey, Ashim*	
224	A Study to Find Out a User-Friendly AI Toolkit by Evaluating Usability of AutoML Tools	Ashrafi, Marzan Samin*; Bhuiyan, Md Afir Uddin; Sultana, Zinia; Mree, Sinchi Mary; Khan, MD. Rafatuzzaman; Islam, Muhammad Nazrul	Military Institute of Science and Technology
241	Usability Evaluation of Online Food Delivery Applications in Bangladesh: A Comparative Study	Arif, Md. Ariful Islam; Kabir, Shahriar; Islam, Zohirul; Khan, Md Faruk Hussain; Islam, Iyolita; Islam, Muhammad Nazrul*	Bangladesh University of Professionals

Paper ID	Paper Title	Authors	Institution
270	An Integrative Framework For Forecasting Chronic Renal Disease	Gopika, Divija*; Kumar, Dr. Sathish GAE; Jakkula, Mahesh; David, Jakku	Vardhaman College of Engineering
323	Transformer-Based Extreme Selfie Detection for Enhancing Safety in Hazardous Environments	Islam, Shifat*; Arman, Mithila	BRAC University
141	Enhanced DDoS Attack Detection in Cyber-Physical Systems within Supply Chain 4.0 using Optimized TSO-DBN Deep Learning Technique	R, Keerthanadevi*; HS, Divyashree; K, Basarikodi; Kalluri, Venkata Saiteja; S, Kavitha; Ananthan, Bhuvanesh	PSN College of Engineering and Technology

Session 12: AI, HCI, VLSI, Power system (Offline) - 03.00 PM - 04.00 PM (IST)			
Venue: Turing Hall			
Session Chairs: Dr. Adil Usman, BoG, IEEE IAS, Dr. Soma Prathibha, Professor, Sri Sairam Engineering College			Session Chair & Coordinator: Dr. T. Sree Sharmila
Paper ID	Paper Title	Authors	Institution
161	fMRI Data to Connectivity Matrices: Building Functional Connectomes for Deep Learning Models	P, Udayakumar*; R, Subhashini	Vellore Institute of Technology (VIT) Vellore, India
190	FPGA and GDS II performance Comparison of Chess Clock Design	Dhare, Vaishali*	Institute of Technology, Nirma University, Ahmedabad
302	An Integrated Demand Side Management Framework Utilizing Smart Grid Technologies and IoT for Enhanced Residential Energy Efficiency	Gopinath, Chidambaram*; Venkatesan, Purushothaman; Prabhavathy, Pachaiyappan	College of Engineering Guindy (CEG) Campus, Anna University
304	A Deep Learning Approach to Assess Social Skills in Virtual Reality Based Interventions for Children with Autism Spectrum Disorder	R, Asmetha Jeyarani; S, Vignesh; Y, Rudhra; Senthilkumar, Radha *	Anna University, MIT Campus
307	Synergistic Energy Harvesting Techniques from Human Motion: Dynamo and Piezoelectric Integration for Power Generation	M, Kanimozhi*; M, sivashankari; M, Rajasubasri; K, Lokeshwaran	Chennai Institute of Technology

Day 2: December 7, 2024			
Meeting Link: https://ieeemeetings.webex.com/ieeemeetings/j.php?MTID=m66eb14410c22a9aa1c4f253735d0bb25 Meeting Number: 2535 471 6864 Meeting Password: b45mXmYCb9y			
Session 13: AI, Computer Networks, Security & IoT (Online) - 10.00 AM - 11.00 AM			
Session Chairs: Dr. B. Velammal, Associate Professor, CEG, AU, Dr. S. Mohanavalli, Associate Professor, SSNCE			Session Chair & Coordinator: Dr. Soma Prathibha, Professor, Sri Sairam Engineering College
Paper ID	Paper Title	Authors	Institution

Paper ID	Paper Title	Authors	Institution
196	Improving E-Commerce Recommendation Systems with SOBPR: A Semantic Ontology-Based Approach	S, Jenny Kalaiarasi*	SRM Institute of Science and Technology
213	MaxVote Classifier-Based Ensemble Model for Identifying Malicious API Activity	S P, Sharmila*; Tiwari, Aruna; Chaudhari, Narendra S.; Sharma, Amiti; Chaudhari, Swathi;	Indian Institute of Technology Indore
227	Bilingual SMS Spam Detection using Deep Ensemble Learning	Sultana, Hafsa*; Tanvin, Jamal Uddin; Tasnia, Fairouz; Rahman, Professor Dr. Md. Mahbubur Rahman	Military Institute of Science and Technology
237	A Smart Medical Box for Medical Professionals and Patients for Helping Them to Avail Timely Medication	Khan, Afsana; Mohiuddin, Masud ; Khan Chowdhury , Prothoma ; Rahman, Md Mizanur *; Abdun Nasir, Nazib ; Reza, Md Tanzim	Green University of Bangladesh
139	Cyber-Physical Attack Detection in Additive Manufacturing: An LSTM-Based Autoencoder Approach using Reconstruction Error Analysis from Side-Channel Monitoring	T, Chithras; M, Mano Raja Paul; D, Karthick Prabhu; S, Karthick; R, Keerthanadevi*; Ananthan, Bhuvanesh	PSN College of Engineering and Technology

Session 14: AI & Humanitarian Technology (Online) - 10.00 AM - 11.00 AM

Session Chairs: Dr. Deje, Associate Professor, AU, Dr. P. Vasuki, Associate Professor, SSNCE			Session Chair & Coordinator: Dr. P. Mohamed Fathimal, Assistant Professor, AU
Paper ID	Paper Title	Authors	Institution
109	A CSI-based Position Independent Gesture Recognition System Using Deep Learning	MEEM, ZERIN SHAIMA ; Asad, Asaduzzaman ; Chowdhury, Mahfuzulhoq*	Chittagong university of engineering and technology (CUET)
195	A Novel Approach to Menstrual Cycle Prediction Using GAN-Generated Data and Transformer Model for Tabular Data	Ahamed, Md Younus; Syed, Md Asif Bin ; Tani, Mafuza Nasrin; Tasnim, Tanpia; Habib, Al Zadid Sultan Bin*	West Virginia University, USA
206	Analysis of Demographic and Comorbidity Data of Bangladeshi Female Dental Patients Towards Automatic Prediction of Comorbidities Risk	SAIMA, UMME SAIMA; Hossain, A. B. M. Aowlad*; Das, Nitish Krishna	Khulna University of Engineering & Technology
285	Parkinson's Disease Detection Using Deep Learning Method & Explainable AI	Khan, Dr. Mohammad Monirujjam*; Ahmed, Md. Shoaib; Tithi, Payel Zaman ; Ridoy, Md. Iftekhar Mahmood	North South University
326	Dynamic pricing strategies of product for minimizing booking cancellation: using machine learning algorithm	KUMARI, PUJA*; KUMAR, ABHISHEK	JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI

Paper ID	Paper Title	Authors	Institution
247	Advanced Particle Swarm Optimization: An Innovative Approach towards Addressing Constrained Optimization Challenges	Hasan, Ashik; Sarker, Sowmik; Bhowmik, Angkita; Ahmed, Pathik; Chowdhury, Abdullahi*; Islam, Mohammad Manzurul	The University of Adelaide, South Australia

Session 15: Climate change, ICT (Online) - 10.00 AM - 11.00 AM			
Session Chairs: Dr. T. Sheela, Professor, Sri Sairam Engineering College, Dr. S. Sasirekha, ASP, NITTTR-Chennai.			Session Chair & Coordinator: Dr. P. Prabhavathy, Assistant Professor, AU
Paper ID	Paper Title	Authors	Institution
21	Performance Evaluation of Grid-Tied PV System in Metrorail Stations: A Case Study in MRT-6, Dhaka	Costa, Brine Felemon; Fahim, Md. Shahriar Khan; Bin Abedin, Nafis ; Rahman, Muhammed Zubair ; Kabir, Md Ahsan K*; Sultana, Sunjida	Military Institute of Science and Technology, Bangladesh
47	Design and Implementation of a Cost-effective & Low Power Consuming 3D Printer with Reduced Vibration of Printing Bed	Islam, Md. Mashrul *; Bosak, Sushanto; Al Goni, Kazi Abdullah; Akib, Tarik Bin Abdul; Tasnim Ritu, Anika	Rajshahi University of Engineering & Technology
186	Enhancing Energy Resilience in Self-Configurable Geo-Replicated Cloud Storage through Green Data Centers	N, Janani*	VIT
205	Proactive Threat Detection in Network Security: An Ensemble Machine Learning Approach	Akash, Pritidhrita Paul; Fahim, F.M. Shafiullah; Nahian, Naila ; Faisal, Faiz Al; Islam, Muhammad Nazrul*	
339	A Comparative Study of Machine Learning Approaches for Sentiment Classification of Bengali Book Reviews Using Word2Vec	Islam, Akib Jayed *; Khalil, Mohammad Ibrahim; Alam, Md Tanvir; Chowdhury, Nazifa Nuha ; Bhowmik, Subashis Roy; Salehin, Sultanus	Norwegian University of Science and Technology, Norway