

5th International Conference Electrical and Electronics Engineering (ICEEE 2024)

September 11-12, 2024

Swinburne University of Technology, VIC 3122, Australia

www.iceee2024.com

Programme Schedule

11th September 2024: Day 1

Time (GMT +10 hours Time Zone Melbourne, Australia)		Description
10:00 AM	10:30 AM	<p>Opening Session</p> <p>Venue: EN building level 7 EN715, Swinburne University of Technology, 427-451 Burwood rd, Hawthorn, VIC 3122</p>
10:30 AM	11:00 AM	<p>Keynote 1:</p> <p>"Technical and commercial drivers to integrate batteries with EV charging"</p> <p>Speakers Geoff James, Director, Pilbara Solar and Business Development Lead, Mondo Power</p> <p>(Venue: EN building level 7 EN715, Swinburne University of Technology, 427-451 Burwood rd, Hawthorn, VIC 3122)</p>
11:00 AM	11:30 AM	<p>Keynote 2:</p> <p>"Security and Authentication for Critical Infrastructures"</p> <p>Speakers Zubair Baig, Head of Research Translation, Deakin CYBER, Deakin University</p> <p>(Venue: EN building level 7 EN715, Swinburne University of Technology, 427-451 Burwood rd, Hawthorn, VIC 3122)</p>
11:30 AM	1:00 PM	<p>Technical Session 1</p> <p>(Venue: EN building level 7 EN715, Swinburne University of Technology, 427-451 Burwood rd, Hawthorn, VIC 3122)</p> <p>Papers:</p> <p>249 A Review on Scalability Enhancement through Sharding-based Blockchain Verification for Resource-Constraint Devices</p> <p>117 Cricket Team Selection Based on Complex Dynamics Using Machine Learning</p> <p>315 Sensor Cost-Effectiveness In Machine Learning Based Preventive Maintenance Applied To Three-Phase Induction Motors</p> <p>356 KAN-PDEs: A Novel Approach to Solving Partial Differential Equations Using Kolmogorov-Arnold Networks- Enhanced Accuracy and Efficiency</p> <p>344 Review of Hybrid Energy Storage Systems for Enhancing the Efficiency of Fast Charging in Electric Vehicles</p> <p>321 A Grid Configuration To Use Solar Electricity 24 Hours A Day Without Energy Storage</p> <p>107 Utilization of Redundant Switching States in Asymmetric Cascaded H-bridge Multilevel Inverter</p>
1:00 PM	1:30 PM	<p>Lunch</p>

1:30 PM	3:00 PM	<p style="text-align: center;">Technical Session 2</p> <p style="text-align: center;"><i>(Venue: EN building level 7 EN715, Swinburne University of Technology, 427-451 Burwood rd, Hawthorn, VIC 3122)</i></p> <p><i>Papers:</i></p> <p><i>236 Modular DC-DC Converter for Battery Bank Interfacing in DC Microgrid</i> <i>92 Optimal Nearest Level Control Modulation Technique for 25-Level Asymmetrical Hybrid Multilevel Inverter Topologies with Reduced Switch Stress</i> <i>94 Performance investigation of a vacuum-enhanced direct contact membrane distillation coupled with a photovoltaic-thermal system</i> <i>405 LSTM-based Predictive Leader Follower Control Scheme for Networked Drones</i> <i>279 Condition Monitoring of Induction Motors Using Multiclass Extreme Learning Machine Based on Current Analysis and t-SNE Feature Visualization</i> <i>104 Utilizing Machine Learning for Long-Term Prediction of Electricity and Transport Fuel Demand in Pakistan</i> <i>312 Analysing the Impacts on Stability of IBR-dominated Power Systems under Evolving Composite Loads</i> <i>259 Analysis of Different Energy Storage Characteristic under Load Using BLDC Motor of Electric Scooter</i></p>
3:00 PM	4:15 PM	<p style="text-align: center;">Industry Session 1</p> <p style="text-align: center;">Panel discussion on road map of net zero energy transition by 2050</p> <p style="text-align: center;"><i>Speakers:</i></p> <p style="text-align: center;"><i>Trevor Hall, Chief Executive Officer, HC Energy</i> <i>Stan Krpan, Chief Executive Officer, Solar Victoria</i> <i>Dani Alexander, Chief Executive Officer, UNSW Energy Institute</i> <i>Luke Robinson, Executive Director - Global Power System Transformation Consortium</i></p> <p style="text-align: center;"><i>Moderator:</i></p> <p style="text-align: center;"><i>Mehdi Seyedmahmoudian, Director, Siemens-Swinburne Energy</i></p> <p style="text-align: center;"><i>(Venue: EN building level 7 EN715, Swinburne University of Technology, 427-451 Burwood rd, Hawthorn, VIC 3122)</i></p>
4:30 PM	5:45 PM	<p style="text-align: center;">Industry Session 2</p> <p style="text-align: center;">Panel discussion on accelerating the net zero transition: clean energy in Australia</p> <p style="text-align: center;"><i>Speakers:</i></p> <p style="text-align: center;"><i>Preeti Arora, GM Infrastructure-Power, APA Group</i> <i>Nishad Mendis Hendis, Manager, Energy Transition, Bureau Veritas</i> <i>Matthew Tilbrook, Director, Project Finance at METKA EGN</i> <i>Niluksha Herath, Executive Manager Engineering, Pacific Blue</i></p> <p style="text-align: center;"><i>Moderator:</i></p> <p style="text-align: center;"><i>Vanyssa Ong, Director, Renewable Energy Advisory</i></p> <p style="text-align: center;"><i>(Venue: EN building level 7 EN715, Swinburne University of Technology, 427-451 Burwood rd, Hawthorn, VIC 3122)</i></p>
6:00 PM onwards	<p style="text-align: center;">Drinks & Networking</p> <p style="text-align: center;"><i>(Venue: EN building level 7 EN715, Swinburne University of Technology, 427-451 Burwood rd, Hawthorn, VIC 3122)</i></p>	

6:00 PM	8:30 PM	<p style="text-align: center;">Technical Session 3</p> <p style="text-align: center;">Join Zoom Meeting https://zoom.us/j/95994982571?pwd=WuAps4fIUqkaQBbDwUlhvis3GF8RS88.1 Meeting ID: 959 9498 2571 Passcode: 12345</p> <p><i>Papers:</i> 371 Development of a Sound Localization and Identification Device for Enhanced Safety of Visually Impaired Individuals 64 DeepInsureAI: A Deep Learning based Vehicle Insurance Prediction Model 340 Karatsuba Algorithm: A Paradigm Shift in Multiplication Efficiency 326 Predictive Modeling of Diabetic Foot Ulcers: An Advanced Approach Using hybrid DeepQ-CNN 178 Prediction of Health Insurance Premium Using XG Boost Algorithm 116 Deep Learning Approaches for Multi-target Weather Patterns Forecasting in Bangladesh. 330 mL-mB LBP Fused net: multi-Layer-multi-Block LBP image fusion Facial Expression Recognition 151 Speaker Identification from Bangla Audio using 2-D Convolutional Neural Network 373 The Rehab Reco - A Therapy Recommender System for Dementia 76 Classification based unlearning through PCL knowledge distillation 270 Strategic Applications of Deep Belief Networks in Anomaly Detection and Generative Modeling for Business Intelligence</p>
8:30 PM	11:00 PM	<p style="text-align: center;">Technical Session 4</p> <p style="text-align: center;">Join Zoom Meeting https://zoom.us/j/95994982571?pwd=WuAps4fIUqkaQBbDwUlhvis3GF8RS88.1 Meeting ID: 959 9498 2571 Passcode: 12345</p> <p><i>Papers:</i> 74 Enhancing E-Commerce Text Classification: A GRU-Based Approach for Improved Product Understanding 202 Selecting Best DTN Forwarding Protocol on Trace-Based Mobility Models 307 FareIQ: Intelligent Fare Optimization for Cab Drivers Using Reinforcement Learning 109 A Study on Source Degenerated Telescopic OpAmp for Biomedical Applications 351 Gesture and Body Position Control for Lightweight Drones Using Remote Machine Learning Framework 118 Knee Osteoarthritis Detection Using Machine Learning Algorithms 255 Hybrid Quantum-based Machine Learning Algorithm for Amyotrophic Lateral Sclerosis Detection using EMG Signals 390 Adverse Weather Object detection using Customised YOLO models 408 AI based Phase Identification to Integrate Distributed Energy Resources in Distribution Network 192 Text Summarization of Indo-Aryan Languages using Self-Attention Mechanism 189 Achieving Cost Efficiency in Cloud Data Centers through Model-Free Q-Learning</p>
12th September 2024: Day 2		
1:30 PM	4:00 PM	<p style="text-align: center;">Technical Session 5</p> <p style="text-align: center;">Join Zoom Meeting https://zoom.us/j/93348698168?pwd=vIUoAysPCtZaVO0sJwb0zpeEliMVKw.1 Meeting ID: 933 4869 8168 Passcode: 12345</p> <p><i>Papers:</i> 206 TCAD Implementation of a Cost-Effective, Stable and Highly-Efficient PCDTBT:PCBM-based Organic Solar Cell 303 Maximizing Customer Satisfaction and Grid Resilience through a Three-Tiered Energy Bidding Framework 197 MCA-for-CAD: Multidimensional Continuous Authentication for Compromised Account Detection 237 The Performance Effect of Seasonality Feature in Solar Photovoltaic Power Prediction Using Machine Learning 396 Predicting Brain Age Using Lightweight 3D CNN Architecture from T1-Weighted MRI Images 320 Load Flow Analysis of the system with TCSC and Multimodule TCSC with different Firing Methods 121 Forecasting Dengue Incidences in Bangladesh: A Univariate Time Series Approach 314 Optimal Power Flow in Modern Power System with Application of Osprey Optimization Algorithm 70 A Novel Approach for Duty Cycle Optimization in Designing Scalable Wireless Sensor Networks 261 Leveraging Flash Memory for In-Memory Computing 398 Performance analysis of a Deep Learning-based Object Detection Approach for Post-disaster Buildings Damage Level Assessment using YOLO and Faster R-CNN</p>

4:00 PM	6:30 PM	<p style="text-align: center;">Technical Session 6</p> <p style="text-align: center;">Join Zoom Meeting https://zoom.us/j/93348698168?pwd=vIUoAysPCtZaVO0sJwb0zpeEliMVKw.1 Meeting ID: 933 4869 8168 Passcode: 12345</p> <p>Papers: 395 Integrating Industrial PV-Battery Systems with Utility Grid: Techno Economic Analysis for an Industry 172 Detection of Mobile Phone Usage among Motorcycle Riders: A Computer Vision Approach 309 Techniques to Rapid and Economic Prototyping of PWM Inverters 100 5G NR V2X Throughput Prediction Using Deep Hybrid Learning . 190 Deep Learning and Context-Aware Mobile Computing for Improved Academic Supervisory Processes 61 Investigation of Analog/RF Characteristics in a hybrid Extended-Dual Source Double-Gate Tunnel FET 201 A Comparative Analysis of Different Optimization Algorithms for Optimal System Reconfiguration to Improve the Radial Distribution Network in Iraq 360 Integrated DC-Link Regulation and Reactive Power Injection Strategies for LVRT Compliance of Grid-Tied PV Systems 414 Short-Term Wind Speed Forecasting using Different LSTM Deep Learning Methods 406 Area and Delay Optimized Approximate Parallel Prefix Adders for Image Processing Applications 381 Implementation of Machine learning and Ensemble learning models for the prediction of CKD and drugs side-effect</p>
6:30 PM	9:00 PM	<p style="text-align: center;">Technical Session 7</p> <p style="text-align: center;">Join Zoom Meeting https://zoom.us/j/93348698168?pwd=vIUoAysPCtZaVO0sJwb0zpeEliMVKw.1 Meeting ID: 933 4869 8168 Passcode: 12345</p> <p>Papers: 317 Utilize UPQC to Reduce Power Quality Issues by SRF Control Strategies Based on Snake Optimization 205 Enhancing User Experience by Tackling the Cold Start Challenge in Product Recommendation System 357 Dynamic Indian Sign Language Sentence Captioning System Using Machine Learning 308 Condition Based Monitoring of Rolling Bearing by Naive Bayes Classifier. 253 Hybrid Power System Simulation And Modelling For Pv And Wind 328 Design and Optimization of Patch Antenna for 5G Applications 96 Rolling Bearing Fault Classification: Multinomial Logistic Regression Approach for Enhanced Efficiency. 354 Patch Antenna Design and Analysis for 5G at 28 GHz 318 Reduce Multiple Power Quality issues with UPQC by Using UVTG and PQ Current Control Techniques Based on Snake Optimization 113 A Optimized Reversible design for programmable array logic based on Quantum Computing nanotechnology 350 SPP_CNN: Spatial Pyramid Pooling for Optimizing Brain Tumor Classification</p>
9:00 PM	11:30 PM	<p style="text-align: center;">Technical Session 8</p> <p style="text-align: center;">Join Zoom Meeting https://zoom.us/j/93348698168?pwd=vIUoAysPCtZaVO0sJwb0zpeEliMVKw.1 Meeting ID: 933 4869 8168 Passcode: 12345</p> <p>Papers: 285 Leveraging Synthetic Data And Lstm Networks For Reliable Rul Estimation Of Ev Battery 289 Thermal Analysis of HTS Tape for SMES-Integrated Wind Turbines during Voltage Dips 234 Supraharmonics Analysis of Distribution side power quality enhancement network 134 An Improved Railway Point Machine Control Mechanism for Enhancing Safety and Reliability of Rail Networks 319 Design of a Single-axis Solar Tracking System with a PI Controller Implemented in MATLAB/Simulink 12 Machine Learning Modeling for Population Forecasting . 13 Tailored House Price Prediction Insights For Dhaka and Chittagong City 260 Advanced Federated Spectrum Busting: Federated Learning based transmitter identification system for Conventional warfare and Counter Terrorism 14 Autism Spectrum Disorder Detection Using Deep Learning Approach and Deployment in Effective website 265 Design and Performance Analysis of Negative Capacitance Based Junctionless Nanowire FeFET for Memory Cell Applications 392 Securing Healthcare Data: A Blockchain-Based Approach</p>