Best Paper Award

IEEE iSSSC 2025

Paper ID	Title	Authors Name	Award
Track 2: Sustainable Energy Technologies			
867	Modelling and Analysis of Renewable Energy Integration and Electric Vehicle Impact on Microgrid Performance: A PSO-Based MPPT and ANFIS-Controlled Battery Approach.	Vijay Kumar; Dr.D. Ravi Kishore; B. Kavya Santhoshi; V. Suresh	Best Technical Paper Award – iSSSC 2025
242	Solar Global Tilted Irradiance Prediction for PV-Optimized Microgrids: A Machine Learning Perspective	Kanaka Raju Kalla; D. Ravi Kishore; D. Vijaya Kumar	Outstanding Paper Award (Second Place) – iSSSC 2025
Track 3: Signal Processing Applications			
398	Image Encryption framework using Cosine-Logistic Map	Puviarasu T S; Amutha R; Neevashine	Best Technical Paper Award – iSSSC 2025
962	ReSEU-Net++: A New Benchmark on Cx22 for Cytoplasm and Nucleus Segmentation using Residual Squeeze-Excitation U-Net++ Architecture	Ankit Bhattacharya; Snehasish Sau; Shyamali Mitra; Nibaran Das	Outstanding Paper Award (Second Place) – iSSSC 2025
Track 4: Cybersecurity and Privacy			
217	PURL-Bot: Chatbot Integrated Machine Learning Driven Phishing URL Detection	V Neelimadhavi; V V A S Lakshmi; M Venkat Rao;	Best Technical Paper Award – iSSSC 2025

		K V Narasimah Reddy; S Sivanageswararao; R Sowjanya	
961	A Unified Benchmark of Boosting and Tree-Based Models for Flow-Based Network Intrusion Detection	Rashmiranjan Nayak; Siddharth Sahu; Umesh Chandra Pati Bibhudatta Sahoo	Outstanding Paper Award (Second Place) – iSSSC 2025
Track 5: Smart Communication and Antenna			
85	Edible Oil Purity Check with a Sensor Based on Microwave Metasurface	Niten Panda; Rajarshi Paul	Best Technical Paper Award – iSSSC 2025
908	Adaptive Spectrum Sensing in Cognitive Radar System using SVM	Deekshitha Kandregula; Veerraju Sampenga; Pilla Bhargavi; Raveendhra Muppirisetti; Raja Ratna Prasad Bandaru; Ramana babu Challapalli	Outstanding Paper Award (Second Place) – iSSSC 2025
Track 6: Interdisciplinary Case Studies			
606	Domain-Adversarial Neural Networks for Cross-Dataset Pneumonia Detection in Chest X-Rays	Soumya Behera; Deepankar Satpathy;	Best Technical Paper Award – iSSSC 2025

		Nihar Ranjan; Mohapatra; Umesh Chandra Pati	
1072	An Adaptive Fault-Tolerance Framework for Cloud–Fog Environments Using Reinforcement Learning and Predictive Analytics	Parthiban Mohandas; Balajee Maram	Outstanding Paper Award (Second Place) – iSSSC 2025
68	An Advanced Deep Learning-Driven Random Spiral Skew Optimization Framework for Robust Cybersecurity in IoT Networks	T Saravanan	Outstanding Paper Award (Second Place) – iSSSC 2025