

AREIS 2024

DECEMBER 5 and 6, 2024

Program schedule



DAY # 1



International Conference on 'ADVANCES IN RENEWABLE ENERGY AND INTELLIGENT SYSTEMS'

AREIS 2024
DECEMBER 5,6 2024

DAY 1 [05/12/2024]

Venue: INSIGHT HALL

Track: Renewable Energy, IoT and Sensors, Automation

Technical Session Chairs:

1. Dr. Chitti Babu, Assoc. Prof. & HoD, ECE, IIITDM, Kancheepuram
2. Dr. Jenson Jose, Assoc. Prof. & HoD, EEE, JECC
3. Dr. Prajoon P., Assoc. Prof., ECE, JECC

Sl. No.	Paper ID:	Title of Paper	Time
1	431	Experimental Analysis of Waste Cooking Oil in Transformer Insulation	10:00-10:15 am
2	447	Improvement of the Synthetic Ester-based Nano fluids dielectric properties for transformer insulation	10:15-10:30 am
3	459	IoT based Sustainable Smart Walking Assistance System Using Light Weight Nagaland Bamboo	10:30-10:45 am
4	461	Air Quality Monitoring System	10:45-11:00 am

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Dr. Jose P. Theerathil
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5	269	Enhancement of Multiple Approaches for Trellis Codified Spatial Modulation	11:15-11:30 am
6	446	IoT networks with heterogeneity in the shipbuilding sector utilizing SDN-Based end-to-end transmission	11:30-11:45 am
7	102	A Survey of DSM Techniques for the Residence Appliance Scheduling Problem in Smart Grids	11:45-12:00 pm
8	203	Design of switching schemes for PUC7 Multilevel Inverter for PV Applications	12:00-12:15 pm
9	311	Challenges Faced by Conventional Protection Devices in PV Array Fault Detection	12:15-12:30 pm
10	81	Design and Development of Drive Cycle Analysis Based Energy Management System for Electric Vehicle Application	12:30-12:45 pm

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11	471	CL-CL Compensation Topology for Improved Inductive Power Transfer Applied to Electric Vehicle Battery Charging	1:30-1:45 pm
12	177	An Ensemble Model for Prediction of Day Ahead Photovoltaic Power using Learning Approaches	1:45-2:00 pm
13	193	A Rational Approach for Assessing Sub synchronous Resonance in Wind Energy Integrated Power Systems	2:00-2:15 pm
14	270	Design and Optimization of a 5 MW Photovoltaic System for Agricultural Applications in Al-Kharj, Saudi Arabia: A Feasibility and Economic Analysis	2:15-2:30 pm
15	256	Aerodynamics performance improvement of Savonius Wind Turbine by wind flow control using CFD analysis	2:30 - 2:45 pm

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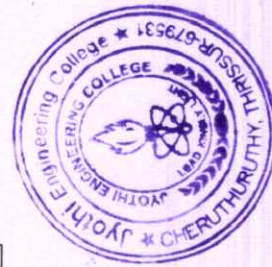
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16	283	Optimization of Performance Characteristics for Perovskite Based Solar Cell	2:45-3:00 pm
17	342	PSO Optimized RBFNN Algorithm Based New Approach for an Optimal Lithium- Ion Battery SoC Estimation	3:10-3:25 pm
18	457	Energy Conserving TR-MRO in WSN	3:25-3:40 pm
19	463	A Low-Cost Home Energy Management Model with Web-Based Emergency Toggling Switch	3:40-3:55 pm
20	480	SmartCardio: Smart IoT-based Heart Disease Diagnosis with Optimal Feature Selection and Dense Non-Local Coordinate-Attention Network	3:55-4:10 pm

Volunteers:

1. Ms. Nikhitha N., AP AD, JECC – 8078845167
2. Ms. Haritha S., S7 ECE, JECC - 9567945930



Dr. Jose P Therattil
Jyothi Engineering College
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Technical Support: Mr. Vishnu E G, Contact: 8281165065



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AREIS 2024
DECEMBER 5,6 2024

DAY 1 [05/12/2024]

Venue: FAB LAB

Track: Artificial Intelligence & Machine Learning

Technical Session Chairs:

1. Dr. Giles M. P., Professor, GEC Thrissur
2. Dr. Anoop V, Professor, AD, JECC
3. Dr. Shyji M. B., Assoc. Prof., CSE, JECC

Sl. No.	Paper ID:	Title of Paper	Time
1	429	Power Generation forecasting through IOT-driven Fault Detection using Deep Learning	10:00-10:15 am
2	450	Convolutional Neural Networks for Cervical Cancer Detection: Diagnosis through Image Analysis	10:15-10:30 am
3	479	DeSR: Dense Simple Recurrent based Water Quality Prediction with Optimal Feature Selection	10:30-10:45 am


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			10:45-11:00 am
4	119	Multipixel Non-Expandable Visual Cryptography with Encapsulated Shares	11:15-11:30 am
5	287	Optimizing Head and Neck Tumour Segmentation using Evolutionary Algorithms and Deep Learning	11:30-11:45 am
6	306	Prediction of SOC and SOH of a Battery using various ML algorithm	11:45-12:00 pm
7	344	Passivity Based Control for a BLDC Motor Driven Electric Vehicle	12:00-12:15 pm
8	432	Smart Aquaculture: Machine Learning- Based Water Quality Prediction in Kadammakudy's Pookkali Fields, Ernakulam	12:15-12:30 pm

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9	444	Super-Resolution of Medical Images Using PL-GAN and Bilinear Interpolation	12:30-12:45 pm
10	445	Transformation Parameters Estimation for Medical Image Registration Using CEL-DNN	1:30-1:45 pm
11	343	Model Predictive control for improving Energy Efficiency and Driving Stability in Electric Vehicles	1:45-2:00 pm
12	443	Enhancing Grid Connected PV System Performance through Adaptive PI Control and Improved DC to DC Converter	2:00-2:15 pm

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13	106	Simple Action Model: Enabling LLM to Sequential Function Calling Tool Chain	2:15-2:30 pm
14	255	Transformer-Based U-Net Architecture to Mitigate the Seeing Effects of Astronomical Images	2:30 - 2:45 pm
15	161	Advancing Alzheimer's Detections: Leveraging Convolutional Neural based Networks for Enhancement in MRI Scan Analysis	2:45-3:00 pm
16	143	Plant Disease Detection and Remedies Using Convolution Neural Network	3:10-3:25 pm
17	111	Edge Intelligence: Artificial Intelligence at The Edge	3:25-3:40 pm
18	316	Advancing Sign Language Prediction with Neural Network Models	3:40-3:55 pm
19	439	Genetic Algorithm Based Feature Extraction and Neural Network Classification For Stress Detection	3:55-4:10 pm


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Volunteers:



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1. Mr. Shawn Padical, AP BSH, JECC - 9400536371
2. Ms. Aiswarya R., S7 ECE, JECC - 9061446054

Technical Support: Mr. Vishnu E G, *Contact: 8281165065*



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DAY 1 [05/12/2024]

Venue: TATA IICC

Track: Artificial Intelligence & Machine Learning

Technical Session Chairs:

1. Dr. Bindima T., Assoc. Prof., AEI, GEC - Calicut
2. Dr. Geethu Mary George, Assoc. prof., CSE, JECC
3. Dr. Valanto Alappat, Assoc. Prof., CSE, JECC

Sl. No.	Paper ID:	Title of Paper	Time
1	482	Adaptive EV Routing Using Ensemble-Based Traffic Forecasting Models to Mitigate Range Anxiety and Maximize Energy Efficiency	10:00-10:15 am
2	483	Energy Meter Data Analysis and Tariff Optimization for Consumption Management	10:15-10:30 am
3	430	A Regularized Hybrid Convolutional Neural Network for Brain Tumor Classification in MRI	10:15-10:30 am

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			10:45-11:00 am
4	50	A Deep Learning Approach for Pothole Detection Using YOLOv8 Model	11:15-11:30 am
5	157	An Effective Detection of Brain Tumor Detection Using ResNet-50 Model	11:30-11:45 am
6	205	Indian Stock Price Prediction Using Optimal Gated Recurrent Unit (GRU) Network	11:45-12:00 pm
7	328	Enhancing Data Compression Techniques for Optimization: A Novel Integration of Burrows-Wheeler Transform, Lempel-Ziv-Welch, Run-Length Encoding and Huffman Coding	12:00-12:15 pm
8	465	Cost Aware Scheduling in Hybrid Cloud-Fog Environment Using Earthworm Optimization Algorithm	12:15-12:30 pm
9	466	Resource Optimization in Cloud Environment Using Advanced Metaheuristic Scheduling Algorithm	12:30-12:45 pm
10	467	DOA: Optimizing Resource Utilization in Cloud Environment Using Multi-Objective Meta-Heuristic Scheduling Algorithm	1:30-1:45 pm

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11	448	Transforming Electric Vehicle Navigation Strategies: An AI-Enhanced Framework for Achieving Superior Route Efficiency in Varied Conditions	1:45-2:00 pm
12	449	TMG-DeepNet: A Novel Deep learning model for Tomato Maturity Grading	2:00-2:15 pm
13	452	Handwritten Text Recognition from Image using LSTM Integrated with Pixel Shifting Optimization Algorithm	2:15-2:30 pm
14	453	A Hybrid U-Net with Active Contours for Plant Leaf Disease Segmentation and Classification	2:30 - 2:45 pm
15	462	Fault Detection and Classification in Smart Grid Using Machine Learning Approach	2:45-3:00 pm
16	464	Attention-Guided Facial Emotion Recognition with Swin Transformer Encoder Decoder Model	3:10-3:25 pm

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17	468	Facial Expression Detection and Analysis Using Hog Based Cnn Classifier	3:25-3:40 pm
18	474	A Comparative Analysis of ML Algorithm Using Weather Condition to Individual Crop Yield	3:40-3:55 pm
19	332	MudraGyaan: A Novel Feature Extraction Algorithm for Machine Learning-Based Bharatanatyam Mudra Classification	3:55-4:10 pm

Volunteers:

1. Mrs. Neeraja James, AP CSE, JECC – 9744192335
2. Mr. Ashwin K. R., S7 ME, JECC – 9947206285

Technical Support: Mr. Vishnu E G, Contact: 8281165065

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ARE IS 2024
DECEMBER 5,6 2024
DAY 1 [05/12/2024]

Venue: DECENNIAL HALL

Track: COMMON [Renewable Energy, IoT, Artificial Intelligence & Machine Learning]

Technical Session Chairs:

1. **Dr. Needhu Varghese**, Assoc. Prof., EEE, Christ College of Engg., Irinjalakuda
2. **Dr. Shijoh V.**, Professor, EEE, JECC

Sl No.	Paper ID:	Title of Paper	Time
1	333	On-Board Electric Vehicle Charger using Phase Shifted Single Phase DC-DC Converter and Totem Pole Power Factor Correction Converter	10:00-10:15 am
2	475	Implementation Of QFD In Domestic Photovoltaic Solar Power Plant Industry	10:15-10:30 am
3	309	A Synergistic Approach Using FCN and Gradient Descent Optimization for RUL Prediction of Lithium Ion Batteries	10:30-10:45 am
4	485	Optimized Grid-Integrated Hybrid Energy System with Advanced Control and Energy Management for Enhanced	10:45-11:00 am



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		Reliability and Sustainable Power Generation	
5	259	E-Secure: Security System Using IoT	11:15-11:30 am
6	334	Solar Powered Raspberry Pi Based Snack Vending Machine Using QR Code	11:30-11:45 am
7	254	Personal Protective Equipment Detection Using YOLO V8	11:45-12:00 pm
8	317	Identification of Criminals Based on Criminal Behavioral Similarity Patterns Using Series Finder and Prefix Span Algorithm	12:00-12:15 pm
9	265	Performance Comparison of XGBoost and CatBoost Algorithm in Credit Card Fraud Detection with Streamlit-Based Web Application	12:15-12:30 pm
10	302	Mitigating Seeing Effect of Astronomical Image using Squeeze and Excitation Network in U-Net Architecture	12:30-12:45 pm
11	476	AI Empathetic Chatbot with Real-Time Emotion Detection using Multimodal Fusion and BO-CNN Optimization.	1:30-1:45 pm



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12	481	A Review on Effective Biometric Techniques Utilizing Iris Recognition with Deep Learning Techniques	1:45-2:00 pm
13	486	Detection Of Anemia from Conjunctival Palor and Nail Color Using Image Processing	2:00-2:15 pm
14	319	Predicting Online Vulnerability among Children and Youth: A Machine Learning Approach with Decision Trees and Naive Bayes Algorithms	2:15-2:30 pm
15	204	Hate Speech Recognition Using BERT and CNN	2:30-2:45 pm
16	321	Evaluating Start-up Success Factors in Modern versus Traditional Industries in India: Insights from Poisson and Machine learning Models	3:00-3:15 pm
17	433	Mult objective Genetic Algorithm for Energy Efficient Clustering In WSN	3:15-3:30 pm

Volunteers:

1. Mr. Jithin K. C., AP AD, JECC - 9656976629
2. Mr. Edwin Jaison, S7 ME, JECC - 7558837642

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DAY # 2



International Conference on

'ADVANCES IN RENEWABLE ENERGY AND INTELLIGENT SYSTEMS'

ARE IS 2024

DECEMBER 5,6 2024

DAY 2 [06/12/2024]

Venue: INSIGHT HALL

Track: Renewable Energy, IoT and Sensors, Automation

Technical Session Chairs:

1. **Dr. Renjini G., Asst. Prof., EEE, NSS College of Engg., Palakkad**
2. **Dr. Anoop Jose, Assoc. Prof & HoD., MR, JECC**
3. **Dr. Anand Krishnan, Assoc. Prof., MR, JECC**

Sl. No.	Paper ID:	Title of Paper	Time
1	315	Synergistic Integration of Photovoltaic and the Grid: An Intelligent ANFIS-Governed Interleaved Boost Converter Approach	10:30-10:45 am
2	487	DC-DC SINGLE SWITCH HIGH GAIN CONVERTER WITH VOLTAGE MULTIPLIER	10:45-11:00 am
3	239	Enhanced Performance of PMSG-Based Wind Energy Conversion Systems Using	11:10-11:25 am



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		a Fuzzy Adaptive Radial Basis Function Neural Network Approach	
4	252	Resilient Microgrid Integration of RES through an Enhanced Sepic Converter and Fuzzy Logic Control	11:25-11:40 am
5	325	Intelligent Routing Protocols for Secure and Efficient Transmission of IoT Medical Data	11:40-11:55 am
6	455	Enhanced Banyan Tree Algorithm with Wavelet Neural Network for Vertical Handover in Heterogeneous Networks	11:55am -12:10 pm
7	238	Optimized Power Quality Enhancement in PV-Integrated UPQC Systems Using Chaotic PSO-Based MPPT Algorithm	12:10-12:25 pm
8	267	Towards Robust IoT Network Security: A Random Forest-Based Anomaly Detection Approach	12:25-12:40 pm



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9	438	Deep Belief Network powered intrusion Monitoring for secure IoT environments	1.30-1:45 pm
10	87	Deep CNN Based Intrusion Detection in Wireless Sensor Networks	1:45-2:00 pm
11	458	BTOA-CPR: A Smart Hybrid Optimization Approach for Power- Delay Aware Mapping in 3D NoC Architectures	2:00-2:15 pm
12	307	A Novel Comparison on Monocrystalline and Polycrystalline Solar Panels at 1.4 KW Capacity to Minimize Power Blackouts	2:15-2:30 pm
13	183	CAViaR Archery Optimization Algorithm based Cooperative spectrum sensing in Cognitive Radio Network	2:15-2:30 pm
14	89	Chaotic PSO Based MPPT in Solar Systems Using DC-DC Luo Converter	2:30-2:45 pm
15	86	Mitigating Leakage Current Suppression with Improved Power Quality Using Four Leg Inverters	2:45-3:00pm
16	90	Optimized Charging Solutions for Electric Vehicles Using IPSO MPPT	3:00-3:15pm



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		Integrated Modified Boost Converter	
17	473	Design and Analysis of Photovoltaic System Based Single Phase Multilevel Inverter with Grid Integration	3:20-3:35 pm
18	484	Streamlining Attendance Management in Education with RFID and IoT Technologies	3:20-3:35 pm

Volunteers:

1. Ms. Nikhitha N., AP AD, JECC - 8078845167
2. Ms. Haritha S., S7 ECE, JECC - 9567945930

Technical Support: Mr. Vishnu E G, Contact: 8281165065



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DECEMBER 5,6 2024**

DAY 2 [06/12/2024]

Venue: FAB Lab

Track: Artificial Intelligence & Machine Learning

Technical Session Chairs:

1. **Dr. Rahul Satheesh**, *Asst. Prof., School of AI, Amrita Viswa Vidyapeetham., Coimbatore*
2. **Dr. Geethu Mary George**, *Assoc. Prof., CSE, JECC*
3. **Dr. Valanto Alappatt.**, *Assoc. Prof., CSE, JECC*

Sl. No.	Paper ID:	Title of Paper	Time
1	345	Intelligent Skin Cancer Diagnosis: A Hybrid Approach Combining Particle Swarm Optimization and Deep Learning	10:30-10:45 am
2	435	Hybrid CNN-BI-LSTM Network for the Accurate Brain Tumour Prediction in MRI Image	10:45-11:00 am
3	160	Dementia Classification using Dragonfly Optimized CNN: Integration of Otsu	11:10-11:25 am

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		Segmentation and GLCM Texture Features	
4	434	Lagrange Key Management System for Data Transmission in Hybrid Cloud Security System	11:25-11:40 am
5	268	Multi Objective Genetic Algorithm Optimized CNN For Pancreatic Cancer Detection	11:40-11:55 am
6	182	PSO Based Feature Selection and CNN Based Classification for EEG Emotion Recognition	11:55am -12:10 pm
7	460	Prediction of CO2 Emissions Using Machine Learning	12:10-12:25 pm
8	247	Modified Convolution Neural Network for the Timely Prediction of Lung Cancer	12:25-12:40 pm
9	472	A Review of Secure Data Transmission in IIoT Using Blockchain Based Fog and Edge Computing	1.30-1:45 pm



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Volunteers:

1. Ms. Chippi P. D., AP RA, JECC - 8891930575
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AREIS 2024
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DAY 2 [06/12/2024]

Venue: TATA IIC

Track: Artificial Intelligence & Machine Learning

Technical Session Chairs:

1. **Dr. Reshma V. K., Assoc. Prof., CSE, Sree Krishna College of Engg., Coimbatore**
2. **Dr. Swapna B. Sasi, Assoc. Prof., CSE, JECC**
3. **Prof. Bineesh M., Asst. Prof. & HoD, AD, JECC**

Sl. No.	Paper ID:	Title of Paper	Time
1	277	Efficient Abdominal Aortic Aneurysm Detection Using Optimized PNN Approach	10:30-10:45 am
2	440	Empowering DR Assessment: A DenseNet-CBAM Driven Approach	10:45-11:00 am
3	451	Real-Time Detection of Physical Alterations Using AI Frameworks	11:10-11:25 am


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4	318	Detection of Physical Anomalies in IoT Networks using Machine Learning Techniques	11:25-11:40 am
5	84	Development of smart assistive glass with enhanced 2-level YOLO algorithm for visually impaired people	11:40-11:55 am
6	271	Aspect-based Tourism Recommendation System through Machine Learning algorithms	11:55am -12:10 pm
7	478	XGBoost-Powered Hybrid Ensemble Approach for Precise Brain Tumor Diagnosis, Combining Convolutional Neural Networks, ResNet50 and KMeans Clustering Techniques.	12:10-12:25 pm
8	336	Machine Learning Neural	

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		Network Classifier Interfaced Skin Cancer Identification for Medical Diagnosis System	12:25-12:40 pm
9	477	Comprehensive Underwater Image Enhancement via Wavelet-Discrete Cosine Transform and Color Calibration approach	1:30-1:45 pm
10	302	Mitigating Seeing Effect of Astronomical Image using Squeeze and Excitation Network in U-Net Architecture	1:45-2:00 pm
11	469	An Adaptive Reversible Data Hiding Scheme Using Image Processing and Deep Learning Techniques	2:00-2:15 pm
12	436	Highly Accurate Crow Search Optimized CNN Classifier for Cyclone Prediction	2:15-3:00 pm



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2. Mr. Ashwin K. R., S7 ME, JECC – 9947206285

Technical Support: Mr. Vishnu E G, *Contact: 8281165065*

