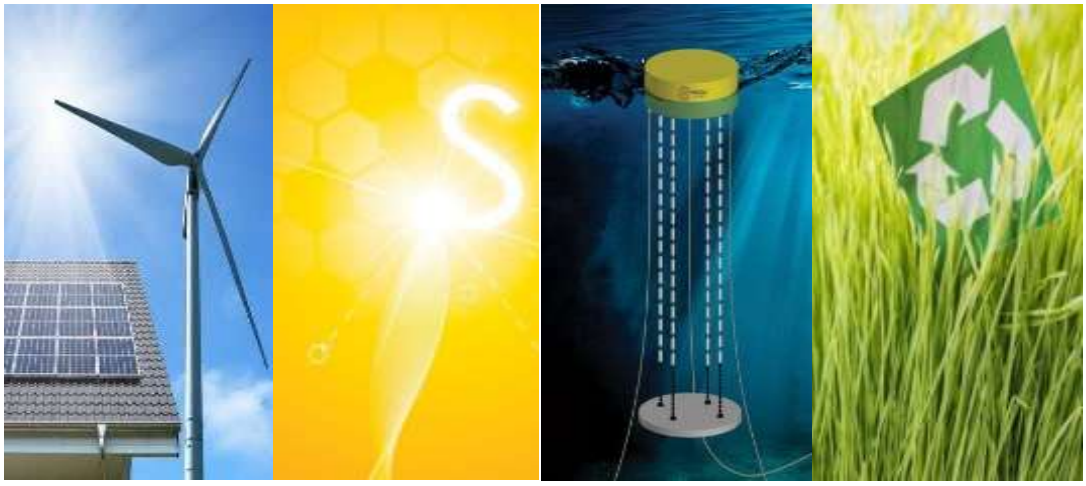
4th International Conference

Renewable Energy Potential for Sustainable Initiatives

(REPSI-2024) February, 08-09, 2024



Organized by

Department of Electrical & Electronics Engineering

Bharati Vidyapeeth's College of Engineering

New Delhi, INDIA

PROGRAM SCHEDULE

08.02.2024 Thursday	INAUGURAL SESSION (**11.00 AM – 12.30 PM)**
Inaugural Addresses	**1.Prof. (Dr.) Dharmender Saini ,** *Principal, BVCOE New Delhi*
Key Note Address-1	**Dr. JAI PRAKASH** Deputy Director General(Technical) National Institute of Solar Energy (NISE)
Key Note Address-2	**Sh. PANKAJ DHINGRA** Director BVG India Ltd.
	CULTURAL EVENT
Key Note Address-3	**Sh. NIKHIL PATHAK** Head – Technical Services, Quality Assurance, Sustainability & Collaborations Tata Power Delhi Distribution Limited [Tata Power-DDL] (Joint venture between Tata Power and the Government of NCT of Delhi)
Key Note Address-4	**Prof. ANIL PAHWA** University Distinguished Professor |Logan-Fetterhoof Chair Jefferson Science Fellow Kansas State University Electrical and Computer Engineering 3086 Engineering Hall Manhattan, United States KS 66506
	CULTURAL EVENT
	LUNCH

08.02.2024 Thursday 02.00 PM–04.30 PM	**Session - 1** **Optimization/ Adaptive/ ML/ IOT/Computational Techniques** **ROOM No-401**

S.No	Paper Id	Paper Title
1.	**4**	A Novel Blockchain and Fractional DCT Based Image Storage and Retrieval Framework
2.	**5**	Eigen-Chain: A Unique Retinopathy Detecting Medical Image Retrieval Blockchain
3.	**22**	A conditionally positive definite kernel function for clustering of incomplete data
4.	**9**	Adaptive sleep scheduling in heterogeneous WSN using GWO for energy efficiency
5.	**69**	Development and Deployment of a Biometric Fingerprint Lock System
6.	**73**	An Intelligent Greenhouse Monitoring and Control System Employing Internet of Things
7.	**25**	Enhancing Data Analytics in Environmental Sensing through Cloud IoT Integration
8.	**26**	Monitoring and Mitigating Climate-Induced Natural Disasters with Cloud IoT
9.	**38**	Comparative Analysis of a Super-capacitor and Li-ion battery based Electric Vehicle

08.02.2024 Thursday 02.00 PM–04.30 PM	**Session - 2** **Optimization/ Adaptive/ ML/ IOT/Computational Techniques** **ROOM No-402**

S.No	Paper Id	Paper Title
1.	**23**	Enhanced Credit Card Fraud Detection in Online Transactions Using Long Short Term Memory (LSTM) and RFM Analysis with ADAYSN Oversampling
2.	**24**	Water Quality Assessment using Machine Learning: A Focus on Coliform Prediction in Water
3.	**27**	Enhancing Cloud Service Efficiency through Ant Colony Optimization with Multi-Objective Task Scheduling
4.	**28**	Optimizing Health Data Analytics in Fog Computing using Hyper-parameter Tuning and Grid Search
5.	**42**	A review on monitoring activities through human activity recognition
6.	**68**	Automatic Rain sensing Car Wiper Design
7.	**67**	A novel MIMO BMS design for User-friendly replacement of batteries
8.	**71**	A Survey of Cyber-security Threats and Countermeasures in the Indian Financial Sector
9.	**82**	An Improved design of Circularly Polarized Microstrip Antenna for 5G Communication

08.02.2024 Thursday 02.00 PM–04.30 PM	**Session - 3**
	Electrical Engineering / Renewable Energy Systems
	ROOM No-403

S. No	Paper Id	Paper Title
1.	**44**	Improvement of Transient Stability using STATCOM during Faulty Condition
2.	**45**	Coin Oriented LDR Based Water Dispenser
3.	**56**	Smart Energy Meter With GSM Card Recharge
4.	**65**	IOT Based Intelligent Solar Power Lawn Mower
5.	**66**	Solar Wireless Electric Vehicle Charging System
6.	**75**	Operational verification of non-isolated basic DC-DC converter topologies
7.	**76**	Comparative Analysis of Single Stage and Dual Stage PV Based Generation System for Pollution Reduction in Asian Nations
8.	**78**	Implementation of Unidirectional Control Mechanism for DC-DC Converters
9.		

09.02.2024 Friday 10.30 AM–12.30 PM	**Session - 4 (ONLINE)**
	Optimization/ AI // IOT/Engineering/Sciences
	Meeting Link: GOOGLE Platform: Will be shared soon

S. No	Paper Id	Paper Title
1	**6**	Non-iterative Fast and Efficient HOG-KELM hybrid model for COVID-19 diagnosis using Chest X-ray images
2	**8**	A Comprehensive Survey on the Significance of Industrial Internet of Things, Energy Management and Big Data Analytics
3	**12**	Efficient Machine Learning Models for the Detection of Coconut Milk Adulteration
4	**18**	The Integration of Machine Learning and IoT for the Early Detection of Tomato Leaf Disease in Real-time
5	**19**	Towards Smart Agriculture: Optimizing IoT Device Energy Efficiency with Cloud-Based Load Balancing
6	**29**	Catalyzing Medical Imaging: Exploring the Potentials of Deep
7	**34**	Identification of Social Network Automated Hate Speech using GLTR with BERT and GPT-2 : A Novel Approach
8	**36**	Low Rank Sparse Coefficient Based Nuchal Translucency Image De-noising
9	**41**	Conditional GAN For Face Aging
10	**74**	An Artificial Intelligence Based Authentication Mechanism for Wireless Sensor Networks Using Blockchain
11	**83**	Energy Based Stability Solution for Grid-Connected Distribution System

09.02.2024 Friday 10.30 AM–12.30 PM	**Session - 5 (ONLINE)**
	Optimization/ AI // IOT/Engineering/Sciences/ Miscellaneous
	Meeting Link: GOOGLE Platform: Will be shared soon

S. No	Paper Id	Paper Title
1.	**32**	Cloud-Based Smart Agriculture Framework: Optimizing Load Balancing Efficiency via Integrated Scheduling Algorithm
2.	**33**	Leveraging Machine Learning in Healthcare: Exploring Benefits and Challenges
3.	**10**	Feasibility of smart engineering solutions in hospitals to tackle with pandemic situation in smart cities
4.	**14**	Thermal Profiling of Ultra-capacitor Modules: A Layered Analysis
5.	**20**	Examining the effects of Magneto priming on RICE and determination of crop indices from absorption
6.	**35**	A Novel breathing detection methodology based on advanced Photoplethysmography technique.
7.	**50**	Enhancing Fuel Efficiency and Emission Control in Diesel Locomotives through Auxiliary Power Units (APUs) in Neutral Conditions
8.	**57**	Flower Polliation Algorithm Applied To Solve Economic Load Dispatch With Valve Point Effect And Transmission Loss
9.	**60**	Techno-Economic Analysis of an optimal integration of PV and BIPV Systems in a residential network
10.	**79**	Modelling for Forecasting Energy Consumption using SBO Optimization and Machine Learning
11.	**84**	Telecom Customer Churn Prediction Model: Analysis of Machine Learning Techniques for Churn Prediction and Factor Identification in Telecom Sector

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