2024 International Conference on Computer, Electrical & **Communication Engineering (ICCECE 2024)**

Kolkata, India 2 – 3 February 2024



IEEE Catalog Number: CFP24H66-POD ISBN:

979-8-3503-8648-6

Copyright © 2024 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP24H66-POD

 ISBN (Print-On-Demand):
 979-8-3503-8648-6

 ISBN (Online):
 979-8-3503-8647-9

ISSN: 2768-0541

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



SL No	Paper ID	<u>Authors</u>	<u>Paper Title</u>	
1	26	Prashant Kumar, Sabha Raj Arya, Rahul Bosu	Impementation of Self-Learning ANN-ANFIS based Dynamic Voltage Restorer for Voltage Power Quality Improvement	1
2	44	Liya M L, Aswathy M	Impact of basic communication modules and techniques in humanitarian crisis-a brief survey	10
3	47	Chaity Sarkar, Srijan Banerjee, Gyan Prakash, Kingsuk Majumdar, Ranjan kumar Jha	Modelling and control of a flexible link rotary servo	18
4	70	Debraj Roy, Trilok Nath Pandey, Bibhuti Bhusan Dash, Sudhansu Shekhar Patra, Utpal Chandra De, Abinash Tripathy	Intelligent Analysis and Identification of Palm Gestures using ML Algorithms	23
5	95	Chandan Jana, Debolina Pradhan, Sannistha Banerjee, Mousumi Jana Bala	Optimal Placement of Distributed Generation for Minimization of Power Loss, Carbon Emission and Voltage Deviation Considering Demand Uncertainty	29
6	97	Manikandan C, Ankit Kashyap, Fakira Mohan Nahak	AI's Influence on Cinematic Restoration	36
7	110	Ayse Ozates, Erhan Akin, Aykut Bilgic, Emre Akca, Canan Tastimur	Analysis of Barrel Electroplating Line with Process Mining and Petri-Net Model	42
8	114	Esha Baidya Kayal, Kabir Chhabra, Devasenathipathy Kandasamy, Raju Sharma, Sameer Bakhshi, Amit Mehndiratta	Automated Texture Feature Based Bone Tumor Segmentation and Image Analysis using Supervised Machine Learning	50
9	116	Ankur Chowdhury, Alok K. Saxena, K.D. Joshi	Transient analysis of MGMC Spark gap switches for improved performance in pulse power systems	55
10	117	Aman Sah, Jyoti Ranjan Panda, Abhik Gorai, Wriddhi Bhowmik, Anirban Neogi	Highly Selective Triple Band Filter Using Stub Loaded Folded Step Impedance Resonator	63

11	121	Ram Gopal Gupta, Ankur Dumka, Bireshwar Dass Mazumdar	Software Cost Estimation: A Comparative Analysis
12	123	Hamza BOUSSELHAM, El Habib NFAOUI, Asmaa MOURHIR	Fine-tuning GPT on biomedical NLP tasks: An empirical evaluation
13	132	Sanjukta Dasgupta	Identification Of Hub Genes In Interstitial Lung Disease And Their Association With Lung Cancer: An In- Silico Analysis
14	133	Saraniya S, Sowmiya M V, Kalpana B N, Karthi M	Securing Networks: Unleashing the Power of the FT-Transformer for Intrusion Detection
15	137	Sanjib Kumar Mandal	Design and Development of DC Bias Filter for Solid State Oscillator at W- Band
16	142	Subhajit Dey, Akash Joarder, Mainak Sengupta, Suvarun Dalapati	Comparative study between Two modes of control on a lab developed BLDC motor prototype
17	143	Amardip Banerjee, Olivia Pal, Mayukh Mondal, Avishek Mukherjee, Partha Pratim Chakrabarti, Surjya Kanta Pal, Sudip Misra, Debashish Chakravarty	An Effective EEG-Based Image Classification Methodology under Low Data and Resource Requirements Using Machine Learning
18	148	Pankaj Kumar, Ajay Chauhan, Samant Raj, Kalyan Koley, Poonam Raturi	Process Variation Impact on Dual Dielectric Gate-All-Around Tunnel FETs
19	150	Priya Sarkar, Ashim Saha, Tannistha Pal	Brain Tumor Identification using a Deep Learning Approach
20	152	Arnab Mondal, Ranita Dey, Anubhav Roy, Sagnik Dutta	Suddh Salil - An Automative Waste Management Technology using Machine Learning

21	153	Raktim Acharjee, Shaik Rafi Ahamed	Automatic Eyeblink Artifact Removal from Single Channel EEG Signals using One-dimensional Convolutional Denoising Autoencoder	131
22	154	Sudip Kumar Ghorui, Koustav Dasgupta, Sakti Prasad Ghosal	Solving Economic Emission Dispatch with integrated Thermal-Solar and Battery Power Using Enhanced Modified Sooty Tern Optimization Algorithm	138
23	158	Supratim Subhra Das, Asraful Sekh	Simulation and Modelling of multi- bounce impulse responses of indoor Visual Light Communication Link for any arbitrary optical transmitter and receiver positions	144
24	159	Abdullah Al Ryan, Habiba Dewan Arpita, Anika Tabassum, Md. Saymon Ahammad, Md Asif Akram	A Comparative Analysis Between Deep Learning and Machine Learning Algorithms Based on User Review Sentiment Analysis from Various OTT Applications	147
25	160	Sayantan Chanda, Sayan Das, Gourab Banerjee, Mainak Sengupta	Design, Fabrication, Performance Comparison and studies on Buck Converters for determining frequency limits of soft commutation failure	154
26	162	Dona Chakraborty, Sayantan Chanda, Gourab Banerjee, Mainak Sengupta	On-load parameter estimation of inductors in DC-DC Buck converters	161
27	163	Gayatree Parbat, Souvik Saha, Munshi Yusuf Alam, Subrata Nandi	i - Honk: Self Honk Detection from Smartphone Sensing for Driver Personalization	168
28	164	Amit Sarkar, Ishita Chatterjee, Anoushka Dhar, Jeet Das, Pushpita Roy, Papri Ghosh, Subhram Das	EmoEyes: A Machine Learning Exploration of Emotional States Through Eye Movement Tracking in Visual Content	174
29	171	Md. Muhaiminul Islam, Farzana Akter, Md. Rakib Hossain, Md. Faruk Hossain, S. M. Mahedy Hasan, Md. Azmain Yakin Srizon	An Advanced IoT and GPS-GSM Based Real-Time Automated Data Monitoring Robot with Image Processing and Live Streaming for Human Life and Land Mine Detection Systems	182

30	177	Kumar Saurabh, Vivek Patel, Ashok Mankani, Aritra Chakraborty, Aditya Naugraiya, Meddi Tharun, Amal S, Paul D Christain, Ujjwal Kumar Baruah	Time-Varying Linear Quadratic Control of Modular Multilevel Converter	189
31	179	Ayush Maity, Pravin Kumar Samanta, Bishnu Prasad De, S. K. Dash, W. Bhowmik, A. Bakshi	FPGA Implementation of Serial Peripheral Interface Transceiver Module	194
32	186	G. K. Md. Muttakin, Farhana Yesmin, Syeda Sadia Alam, Md Sadi Ashraf, Vishwanath Akuthota, Montaser Abdul Quader	Comparative Analysis of Diverse Architectures for Accurate Blood Cancer Cell Classification	199
33	191	Ahsan Mullick, Souvik Senguptta	Machine Learning-based analysis of IoT healthcare data- A review of contemporary research	205
34	192	Reeju Bhattacharya, Ronojit Pal, Pritam Paral, Anindita Sengupta	Photometric Invariant Visual Walking Stick Detection in Human-Robot Coexisting Environments: A Stratified Random Sampling Based Approach	214
35	195	Aparajita Chowdhury, Debashis De	RGSO-based Energy-Efficient Clustering for Sustainable IoT using Dynamic Voronoi Diagram	222