2022 Trends in Electrical, Electronics, Computer Engineering Conference (TEECCON 2022)

Bengaluru, India
26 – 27 May 2022

IEEE Catalog Number: CFP22BL4-POD
ISBN: 978-1-6654-8367-4

Copyright © 2022 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:	CFP22BL4-POD
ISBN (Print-On-Demand):	978-1-6654-8367-4
ISBN (Online):	978-1-6654-8366-7

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

2022 Trends in Electrical, Electronics, Computer Engineering Conference (TEECCON)

*26th & 27th May 2022 (*10:00 AM to 04:30 PM, IST)

Organize by School of EEE & IEEE Student Branch REVA University

REVA University, Bengaluru, India.

Table of Contents

Track 1	Pages
A New Nine Level Switched Capacitor-based Inverter with Quadruple Boosting Ability *Swamy Jakkula, Jayaram Nakka, P S V Kishore, Jami Rajesh, Sukanta Halder*	1-6
Dynamic Wireless Power Transfer Using an Isolated DC-DC Converter *Harshavardhan Yadav Gangadhara, K Deepa*	7-13
Design of Dual Band Pass and Band Stop Frequency Selective Surface: For Wireless Communication *Sanjeeta Dhegaya, Lavi Tanwar*	14-17
Designing of Six Wheel Robotic Vehicle for Instant Disinfection and Sanitization *SiripiReddy Venkateswarlu Reddy, T. Muni Prakash, Jarapala Siva Naik, S. Ramakrishnan, J. Joshua Daniel Raj, Balineni Bhargavi*	18-24
Implementation of Code Tracking Loop using Narrow Correlator for GNSS *D. Sony, D. Krishna Reddy, JB Farheen*	25-28
Novel Adders for Xilinx Versal FPGAs *Chinmaya Dash*	29-34
Track 2	Pages
OCR of Kannada Characters Using Deep Learning *Abhishek Kashyap, Aruna Kumara B*	35-38
Human and Object Detection using Machine Learning Algorithm *Md. Tabil Ahammed, Sudipto Ghosh, Md. Ashikur Rahaman Ashik*	39-44
Optimal Mix and allocation of Solar and Wind Energy Sources in Active Distribution System Using Jaya Optimization Algorithm *Prasanth Venkatareddy, Kola Sampangi Sambaiah, Samanvita N*	45-49
A Comparative Study of Classifying English News Articles Using Machine Learning Algorithms *N. Disayiram, R. A. H. M. Rupasingha*	50-55
Automated Segmentation for Knee Joint MRI Images Using Hybrid UNet+Attention *Priyadarshini Adyasha Pattanaik*	56-61
Human Activities Recognition and Monitoring System Using Machine Learning Techniques *RK Pinky, Dr. Sapam Jitu Singh, Chongtham Pankaj*	62-66
DC-Microgrid Fault Detection & Classification Using ANN Enabled BAT Algorithm *Sudhansu Bhusan Pati, Subrat Kumar Barik, Subhasri Kundu, Ritesh Dash, Adithya Ballaji*	67-71
Explaining Machine Learning Predictions: A Case Study *Prarthana Dutta, Naresh Babu Muppalaneni*	72-77
Linear Regression Tree and Homogenized Attention Recurrent Neural Network for Online Training Classification *Yadhunandan K K A, Sujatha Arun Kokatnoor*	78-83
Track 3	Pages
Asynchronous NoC with Fault tolerant mechanism: A Comprehensive Review *Renu Siddagangappa, Nayana D.K*	84-92
Gated Recurrent Unit RNN based Non-negative Tucker Decomposition for Satellite Image Compression *K.Sai Himaja Chowdary, M.Kalaiyarasi, S.Saravanan*	93-96
Stable Gain With Frequency Selective Surface in Planar and Conformal Structure: For Radome Application *Sanjeeta Dhegaya, Lavi Tanwar*	97-102
VCXO Methodology to Achieve wide Frequency Pulling in Low Profile for Space Applications *Anjali N, Chandrashekar Mariyappa, Devanathan M*	103-107

Track 4	Pages
Discovering low-rank representations of large-scale power-grid models using Koopman theory *Asif Hamid, Danish Rafiq, Shahkar Ahmad Nahvi, Mohammad Abid Bazaz*	108-112
Performance of Solar PV under higher Concentration of Carbon dioxide and Methane *Bhabani Patnaik, Sarat Chandra Swain, Ullash Kumar Rout, Ritesh Dash*	113-118
A Review on Water Tree Phenomenon and Incipient Fault in Underground Cable *Sanhita Mishra, Aurobinda Rout, S.C.Swain, Ritesh Dash*	119-122
Control of Modified Switched Reluctance Motor for EV Applications *B. Hemanth Kumar, M. Tharun, P. Kalyan Kumar Reddy, K. Nagaraj, Rambabu Naik, N. Mahesh Babu*	123-127
A Multi Objective Artificial Eco-System Based Optimization Technique Integrating Solar Photovoltaic System in Distribution Network *Kamal Kumar U, Varaprasad Janamala*	128-134
Track 5	Pages
Realization of Lange Coupler using Hybrid Technology and its Characterization *Rashmi Behera, Kumar Sangam, Suma S Lonkadi, Ajay Andhiwal, Kamaljeet Singh, A V Nirma*	135-141
Smart Energy Grid Using IOT *T.Gopi Krishna, Paruchuri.Chandra Babu Naidu, Kumar Cherukupalli, A. Veera Reddy, M.Sravani*	142-147
Performance Comparison of T-ZSI , ZSI and VSI Based on the Power Loss During Switching Operation of Installed Power IGBT Switch for EV Applications *Manish Bharat, ASR Murty*	148-153
Architecture Design of Electric Vehicle Parking Lot *Sanjay Kumar G, Leela Grace U, Ramu Srikakulapu, Poojasree M, Latha V, Charan kumar G*	154-159
Control of Interfaced Converters with Various Levels of PV Penetration into the Grid: A Case Study *Ramu Srikakulapu, Sanjay Kumar G, Joanna Parimala P, Charan kumar G*	160-165
Comparative Analysis of Control Strategies for Dynamic Voltage Restorer *Bansilal Bairwa, Raghu C N, Ashwini Kumari P, Sujo Oommen*	166-171