2022 International Conference on Innovations in Science and Technology for Sustainable Development (ICISTSD 2022)

Kollam, India
25 – 26 August 2022

IEEE Catalog Number: CFP22BY8-POD
ISBN: 978-1-6654-9937-8

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: CFP22BY8-POD
ISBN (Print-On-Demand): 978-1-6654-9937-8
ISBN (Online): 978-1-6654-9936-1

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

Paper Index

SI No:	Paper ID	Paper Title	Authors	Page No.
1	19	Optimal Solution for Reactive Power Dispatch Problem using Dragonfly Optimization Algorithm	V.Barkavi, N.Velammal, S.Jaisiva	1-5
2	24	On the miniaturization of printed log periodic antenna using T-shaped dipoles	Althaf H, Muhammed Shah H, Nesba Sahir, Sona Suresh, Jolly Rajendran	6-9
3	38	An Improved System Performance Using ANN-FUZZY Logic and MSHO Control for BES-Solar PV and Wind Plant Based Micro-Grid System	P.Revathi, L Shanmukha Rao, P. Prabhakara Sharma, K Jhansi, P. Ramajaneyalu, Shaik Nayeem Bashsa	10-17
4	55	Detection and Classification of Indian Classical Bharathanatyam Mudras Using Enhanced Deep Learning Technique	Sneha Haridas, Dr. Ramani Bai V	18-23
5	60	An Overview of Efficiency Improvement Strategies for Electric Vehicle Drivetrain using PMSM Drives to mitigate EV Range Anxiety	Harsha Kumar, Maneetkumar. R . Dhanvijay, Ravi Maravulla, Sudhir. M. Patil	24-29
6	61	An Energy Efficient Clustering and Relay Selection Scheme for Cognitive Radio Sensor Networks	L.V.R. Chaitanya Prasad, Yedukondalu Kamatham, Dhiraj Sunehra	30-35
7	63	Design and implementation of patient's health care robot for COVID'19 wards	Pavithra G, Sudha Yadav	36-41
8	66	Identification of Flowers using Machine Learning	Shital Pawar, Wagisha Raj, Suruchi Bibikar, Bhakti Patil, Shubhangi Kumari, Anjana Patil	42-47

	9	67	Vehicle Detection in Smart City Surveillance Using Emerging Technologies	Shihabudeen H, Rajeesh J	48-55
	10	77	A Systematic look up into various Object Detection Techniques in Autonomous Vehicles: A Survey	Sangavi. S, Dharani Bai. G	56-61
	11	94	Architecture-based Evaluation of VGG16 and ResNet Models for an Online Deep Learning Environment for Medical Applications	Hari Priyanka Chilakalapudi, Ramya Venkatesan, Yedukondalu Kamatham	62-67
	12	106	Plant Leaf Classification through Deep Feature Fusion with Bidirectional Long Short-Term Memory	Bhanuprakash Dudi, Dr.V.Rajesh, G Prasanna Kumar	68-73
	13	108	Feature Extraction and Quantification in Retinal Fundus Autofluorescence Images of CSR Patients.	Bino. N, Dr. Haris P. A, Dr. Sheeba O	74-79
	14	110	Optimized Fault Detection and Classification for 3-Phase Electric Drives – An AI/ML Approach	Antarip Giri, Niranjan Mehendale, Nitesh Waghode	80-87
	15	114	Improved method of X-RAY image classification using deep learning for COVID-19 detection	PRIYANKA C G, CHINCHU M, SHIHABUDEEN H	88-92
	16	115	Hardware Design of Network Model of Protection and Controller module for Three-Phase Induction Motors in Industrial Plants with Remote Monitoring System on a Centralized System.	Rahul Santhosh, Vikram Siddharthan M, Sailakshmi, Sudha Yadav	93-98
	17	117	Designing GeoGebra applet of nets for flat-side 3D shapes for fifth grades: A preliminary study	Zetra Hainul Putra, Neni Hermita, Cut Yasmin Tamimi, Eddy Noviana, Jismulatif	99-103

	18	119	Design of STT-MRAM Using Hybrid MTJ/CMOS for Applications beyond CMOS	Aswathy N, Dr. N.M Siva Mangai, Francis Aswin M	104-108
	19	123	Video Captioning model using a curriculum learning approach	Soumya Varma, Dr. J Dinesh Peter	109-114
	20	130	A Review on Efficient state-of-the-art Image Dehazing Techniques	R.Prakash Kumar, Dr. N.Manja Naik	115-121
	21	133	A Multifunctional Modified Dual Input Converter for Electric Vehicle Applications	Sona Susan Saji, Shanifa Beevi S.	122-127
	22	139	Wireless Electric Vehicle to Vehicle Power Transfer in Single Phase Induction Motor Drivetrain	Healsa Henry, Dr. Abhilash T Vijayan	128-133
	23	140	Antecedents of Binge-Scrolling Short-form Videos	Rajarathi Karunakaran, Guhan R, M Karthik Ram, Arjune S	134-138
	24	141	The Emergence of e-Banking Adoption by Rural Banking Customers: Evidence from Tamil Nadu	Rajarathi Karunakaran, Guhan R, M Karthik Ram, Arjune S	139-144
	25	142	Digital Technology Adoption Behaviour in the context of Unorganised retail: Towards a Technology Continuance Theory	Rajarathi Karunakaran, Guhan R, M Karthik Ram, Arjune S	145-150
	26	154	An Extensive Review of DC-DC Converter Topologies for Water-Pumping Application	Aseela Sweatha, Dr. B. Baskaran, Dr. P. Duraipandy	151-156
	27	158	Machine Learning Based LVRT Enhancement of Wind Energy Conversion System using SFCL	Anoopraj M R, Silpa Sasi, Tomson Thomas, Prince Asok	157-162
	28	161	Study of Turnstile Based Electric Power Generation	Senthil Kumar R, Sugavanam K R, Prabaakaran K, Mohammed Ovaiz A, Harish S, Shanmugapriya M	163-166

	29	165	Electric Vehicle Technologies: A Review on Different Charging Methods, Power Converters, and Their Consequences on Utility Grid	Amina B, Jibi P Mathew	167-172
	30	167	Smart Tourism: Validation and Analysis of the Displacement of Tourists	Dr. Pankaj Kumar Tyagi, Dr. Ajit Kumar Singh, Priyanka Tyagi, Anita Kumari Singh	173-178
	31	168	GREEN ORIENTATION & ORGANISATION PERFORMANCE IN THE CONTEXT OF SUSTAINABILITY	Dr. Pankaj Kumar Tyagi, Dr. Ajit Kumar Singh, Priyanka Tyagi, Dilip Kumar	179-184
	32	170	FOOD WASTE & SUSTAINABILITY THROUGH A LENS OF BIBLIOMETRIC REVIEW: A STEP TOWARDS ACHIEVING SDG 2030	Dilip Kumar, Dr. Sajjan Choudhuri, Dr. Abhinav Kumar Shandilya, Prof (Dr) Rohit Singh, Dr. Pankaj Tyagi, Dr. Ajit Kumar Singh	185-192
	33	174	Enhanced Capacitor Voltage Balancing of Interleaved Modular Multilevel Converter in Medium Voltage DC Collection Grid	Kavya Suresh, P Kanakasabapathy, Allada Harish Kumar	193-198
	34	180	A minimal storge overhead Clone Detection in Wireless Sensor Network	Sajitha M, D. Kavitha, P. Chenna Reddy	199-203
	35	182	GPS and Real-Time Computer-Vision based Intelligent Navigation System for Electric Vehicle	Binoj James, Dr. Bindu S. J.	204-208
	36	188	SMART AMERICAN SIGN LANGUAGE RECOGNITION FOR DEAF	Arya Sanil, Hella Santhosh Lal, Rohit Krishnan, Syam M, Seena R, Aseena A	209-214
	37	190	Engineering Web resource summaries using Pointwise mutual information (PMI)-based for web document summarization	Atul Kumar Srivastava, Alok Agarwal, Dheeraj Pandey	215-221

	38	196	Predicting The Level Of Anxiety Of Coronavirus Pandemic Among College Students Using Different Classifier Algorithms.	FEBINA S. N, DR. MOHAMED MUBARAK.T	222-227
	39	198	MEDICAL IMAGING USING DEEP LEARNING	Athulya Jayan, Fathima L, Nazarulla N, Sangeeth S, Dhanya M	228-234
	40	204	Energy-Efficient Chicken Swarm Optimization Algorithm Using Multiple Cluster Head Selection in Wireless Sensor Networks	Deepa Devassy, J. Immanuel Johnraja, Getzi Jeba Leelipushpam Paulraj	235-239
	41	207	An approach to unveil the masked faces: Occluded Face-Recognition System	Aldrin Andrew, Diya Susan Jose, Priya Elizabeth Daniel, Dr V Praseedalekshmi, Archa.A.B	240-243
	42	210	Multipurpose Surveillance System	Sudheer V R, Akshay S A , Aldrin Andrew, Diya Susan Jose, Priya Elizabeth Daniel, Dr V Praseedalekshmi	244-247
	43	214	Automatic Attack Detection with Machine Learning and Secure Log for Cloud Forensics	Chindu Mohan, Devi Dath	248-252
	44	218	SMART MEDIBOX	Surjith S, Smrithi V, Pooja Jeevan, Akhila Joy, Abisa M, Kalyani M J	253-257
	45	219	TRAFFIC SURVEILLANCE SYSTEM AND CRIMINAL DETECTION USING IMAGE PROCESSING AND DEEP LEARNING	Aditya Anoop, Harikrishnan G, Keerthi Nair, Sangeetha B, Dr. V. Praseedalekshmi, Tasneem Salam H	258-263

	46	220	Classifying Skin lesions into Seven class using Deep Convolutional Neural Networks	Anju Joy, Suja Rani M S	264-268
	47	221	Image Enhancement in Reconstructed Photoacoustic Microscopy Images Using Deep Learning	Athira S, Anoop S	269-274
	48	222	COMPUTER-AIDED SEMEN QUALITY PREDICTION USING LONG-TERM RECURRENT CONVOLUTIONAL NETWORK(LRCN) AND CONVLSTM	SANJAY SANTHOSH, RATHEESH S	275-281
	49	223	Parkinson's Disease Prognosis Using The ResNet-50 Model From Speech Features	Shafeena M.B, Suja Vijayan	282-286
	50	224	COVID-19 and Pneumonia Detection using Hybrid VGG-16 model using Chest X-rays	Tobin P. Mathew, Surya S. R.	287-292
	51	226	Cyberbullying Detection on Social Networks using LSTM Model	Arsha Dass M A, Deepa K Daniel	293-296
	52	229	A Multifunctional Onboard Power Electronic Converter for Electric Vehicle	Ajindu N S, Jino Varghese, Rahul Charles C M, Saritha M, Jasna Basheer Nikhil Prasad, Roshan Suresh	297-302
	53	230	Automated Solar Powered Pest Control System	Arpitha A R, Vinayak V S, Akshay V Dev, Sreehari R Pillai Rahul Charles C M, Thasreef H R, Jasmi M S	303-307
	54	237	Event Driven Architecture for Message Streaming data driven Microservices systems residing in distributed version control system	Amarjeet Singh, Vinay Singh, Alok Aggarwal, Shalini Aggarwal	308-312

	55	252	Speed Control of BLDC motor using Fuzzy Logic Algorithm for Low Cost Electric Vehicle	Kavuri Poornesh, R. Mahalakshmi, Jayadeep Sai Ram V, Gunavardhan Reddy N	313-318
	56	253	Review on different converters for solar EV microgrid and an integrated topology to ripple out the harmonics in PV panel	Sruthi Damodaran, R.Mahalakshmi	319-324
	57	254	Internet Based Real Time Control of Rover Using Live Video Streaming	Madhusudhan Reddy Guggilla, K. Deepa, M. Nithya	325-329
	58	256	E-PAYMENT AS AN ALTERNATIVE PAYMENT SYSTEM IN PETROL STATIONS OF BRUNEI	Ainul Hazirah Shah Johan, Ulaganathan Subramanian	330-335
	59	263	Hybrid Energy Storage System Based BLDC Motor Driven Electric Vehicle	Rahul Charles C M, Prof. Savier J S	336-341
	60	270	Compact new UWB textile antenna for medical applications	T.Shanmuganantham, S.Bhavani	342-346
	61	271	Power Quality Issues on the Integration of RES-EV to Grid: A Review	Saritha M, Manitha P.V.	347-352
	62	272	WIRELESS CHARGING OF ELECTRIC VEHICLES USING SOLAR ROAD	Mrs. Viji Chandran, Mrs. Ajisha S, Mr. Ananthu B, Mr. Devakrishnan V,Mr. Pankaj R S, Mr. Akash S	353-358
	63	281	Texture Feature Based Colonic Polyp Detection And Classification Using Machine Learning Techniques	Pooja V, Chempak Kumar A, D.Muhammad Noorul Mubarak	359-364
	64	282	DESIGN AND ANALYSIS OF FUZZY LOGIC CONTROLLER FOR ENHANCING THE FAULT RIDE THROUGH ABILITY OF PMSG	Fathima Rehna N, Prof.Vijayasree G	365-370

	65	283	Comparative Performance Evaluation of Wire-bonded Micro Heat Pipes with Acetone and Water as Working fluid	Rag R L, Rupesh S	371-374
	66	284	Design and Evaluation of MPPT Based Two Stage Battery Charging Scheme For A Solar PV Lighting System	R. Muniraj, M. Ulaganathan, Jarin.T, B. Deepanraj, Sreekanth c	375-380
	67	285	A Review on Non-Intrusive Load Monitoring Using Deep Learning	Sanjay Steephen, Sheeba R, Naufal N	381-385
	68	286	Quasi Z Source Inverter Fed Induction Motor Drive Using Chaotic Carrier Sinusoidal PWM	R. Muniraj, M. Ulaganathan, Jarin.T, B. Deepanraj, Sreekanth c	386-391
	69	287	Intelligent Vehicle Collision Detection and Traffic Control	S.Sneha, K.Deepa, M.Nithya	392-397
	70	288	A AC-DC HYBRID NANOGRID SIX BUS SYSTEM FOR PV BASED MODERN BUILDINGS	Mrs.Rekha T, Mrs. Edwina G Rodrigues, Mr.Hrithik M, Mr.Sharang S, Mr.Aravind G, Mr.Josilva Joy	398-402