2019 3rd International Conference on Electronics, Communication and Aerospace Technology (ICECA 2019)

Coimbatore, India
12 – 14 June 2019

Pages 1-734

IEEE Catalog Number: CFP19J88-POD
ISBN: 978-1-7281-0168-2

Copyright © 2019 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: CFP19J88-POD
ISBN (Print-On-Demand): 978-1-7281-0168-2
ISBN (Online): 978-1-7281-0167-5

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

3rd International Conference on Electronics and Communication and Aerospace Technology (ICECA 2019)

Table of Contents

S.No	Title	Page.No
1	Implementation Of LEM2 algorithm On FPGA Nikhil Narsale, Vanita Agarwal	1
2	A Power and Static Noise Margin Analysis of different SRAM cells at 180nm Technology Ranjit Kolhal, Vanita Agarwal	6
3	Performance Comparison of DAC's using 45 nm Technology Sowjanya, Sunitha Lasrado	13
4	A 0.5 V LNA Design for 2.4 GHz Wireless Body Area Network Applications Vandana Reddy, Poojitha Sammeta, Ruchita Kumari, Nasir Abdul Quadir, Amit Jai	19
5	Efficient Multi-Bit Error Tolerant design for MVM P G Hitesh, Pasam Venkatesh, P Sai Thirumal Reddy, M. Vinodhini	24
6	Weighted Logic Locking to Increase Hamming Distance against Key Sensitization Attack Sreshma Krishnan, Mohan Kumar N., Nirmala Devi M	29
7	A flowchart to reduce mutual reinforcement effect on web page ranking based on web strucuture mining Rinkal Sardhara, Kamaljit I. lakhataria	34
8	AI based Reading System for Blind using OCR Abhishek Mathur, Akshada Pathare, Prerna Sharma, Sujata Oak	39
9	Performance Analysis of Parallel Boost Micro-Inverter for Solar PV Grid Integration Jyothi, Pradeep Kumar	43
10	Security Enhancement of Hybrid Source in the Grid with STATCOM Mariya Malik Naseem Akhtar, Vinod K. Chandrakar	49
11	Microcontroller based Noise Detection and Controlling Electronic Appliances Prajakta S. Palkar	55

S.No	Title	Page.No
12	PWM controlled high power factor single phase Fan regulator Sneha Waghare, D. R. Tutakne, Aksahy Deshmukh, Mukesh Mardikar	59
13	Prototype Development Of Insulator Hardware With Corona Ring Installed For 400KV Transmission Network Jayshree Pipare, Prashant.P.Jagtap, Pawan P. Khandalkar	65
14	IoT based Obligatory usage of Safety Equipment for Alcohol and Accident Detection Dhruvesh H. Patel, Parth Sadatiya, Dhruvbhai K. Patel, Prasann Barot	71
15	Plant Disease Classification Using Soft Computing Supervised Machine Learning Aman Sehgal, Sandeep Mathur	75
16	Comparison of Various Machine Learning Techniques and Its Uses in Different Fields Aditya Srivastava, Sonia Saini and Deepa Gupta	81
17	FPGA Based Performance Comparison of Different Basic Adder Topologies with Parallel Processing Adder Ananthakrishnan, Anaswar Ajit, Arathi P V, Kiran Haridas, Niraj Mohan Nambiar ,Devi S	87
18	Enhanced Long Range IRIS Recognition Ankita saxena, Ajay Vikram Singh, Sunil Kumar Khatri	93
19	IoT Security in Wireless Devices Rishav Gauniyal, Dr. Sarika Jain	98
20	Proportionate Study of Neuron Models for Implementation of Neural Encoder Pooja Said, Manisha Bansode, Dr. Surendra Singh Rathod, Payal Shah	103
21	IOT Based Vehicle Anti-Collision And Pollution Control System Abhi B. Amin, Harsh P. Patel, Suken P. Vaghela, Ronak R. Patel	108
22	Comparative Analysis for Optimising On State Current in a Dual Gate TFET Gaurav Joshi, Dr. Neetu Sood, Dr. Indu Saini	111
23	Machine Learning Approach to IDS: A Comprehensive Review Kunal, Mohit Dua	117
24	Comparative study of on-drive-current improvement techniques in charge plasma TFET Tarun Kumar Bhardwaj, Deepti Kakkar, Balwinder Raj	122
25	Classification of Brain Tumor using Convolutional Neural Network Krishna Pathak, Mahekkumar Pavthawala, Nirali Patel, Dastagir Malek, Vandana Shah, Bhaumik Vaidya	128
26	Enhancing Home security systems Using IOT Akansha Singh, Deepa Gupta, Neetu Mittal	133

S.No	Title	Page.No
27	Future Of Wearable Devices Using Iot Synergy in AI Vasu Sharma, Vineeta, Subhranil Som, Sunil Kumar Khatri	138
28	NFC Car Keys By Using RSA Cryptography In WSN Security Priyabrata Satapathy, Nitin Pandey, Sunil Kumar Khatri	143
29	AI and Web-based Human-Like Interactive University Chatbot (UNIBOT) Neelkumar P. Patel, Devangi R. Parikh, Darshan A. Patel, Prof. Ronak R. Patel	148
30	Smile Detection: Current Trends, Challenges and Future Perspective Irshaad Ali, Mohit Dua	151
31	Accelerating Extended Reality Vision With 5G Networks Sumit Patil, Rahul Kumar	157
32	Robust Hybrid Watermarking using Image and Audio against Synchronization Attacks Bhavneet Sharma, Mayank Dave	162
33	Single Stage Reconfigured Inverter Topology for Solar Power Integrated AC/DC loads Sachin Nalawade, Girish Walke	167
34	Data Security Enhancement in Cloud Computing using Multimodel Biometric System Kuhu Singh, Anil Kumar Sajnani, Sunil Kumar Khatri	175
35	A BROAD VIEW OF AUTOMATION IN LEGAL PREDICTION TECHNOLOGY N.Sivaranjani, Dr.J.Jayabharathy, M.Safa	180
36	Image-to-Image Translation Using Generative Adversarial Network Kusam Lata, Mayank Dave, Nishanth K N	186
37	IoT based Diagnosing Myocardial Infarction through Firebase Web Application Akhilesh Kumar Sharma, Lalit Mohan Saini	190
38	A Novel Approach to Detect Phishing Attack Using Artificial Neural Networks Combined with Pharming Detection Kishan Gajera, Palash Mehta, Mukul Jangid, Jayashri Mittal	196
39	AI Based Automatic Robbery/Theft Detection using Smart Surveillance in Banks Rutvik Kakadiya, Reuel Lemos, Sebin Mangalan, Meghna Pillai, Sneha Nikam	201
40	IoT and WSN Based Water Quality Monitoring System Simitha K M, Subodh Raj M S	205

S.No	Title	Page.No
41	Analysis of Dielectric Relaxation in Dipolar Liquids under High Frequency Electric Field Swagatadeb Sahoo	211
42	Double relaxation phenomena of amide with phenol from susceptibility measurement under high frequency electric field Swagatadeb Sahoo	217
43	Multilevel converter based DSTATCOM for –ve sequence component of current reduction and harmonic mitigation Adepu Sateesh Kumar, K.Prakash	223
44	The concept of implementation of Smart City in the perspective of India using Internet of Things. Ashish Avasthi, Gaurav Mishra, Taiba Hasan	229
45	Comparative Performance Analysis of Karatsuba Vedic Multiplier with Butterfly Unit V. Harish, Dr. Kamatchi S	234
46	Gm-C Current Mode Fractional All Pass Filter of order α ($0 < \alpha < 1$) M Vineeth Bhat, Swasthik Bhat S S, D V Kamath,	240
47	Machine Learning based Pest Identification in Paddy Plants Vivek Agnihotri	246
48	Image enhancement techniques for Gastric Diseases detection using Ultrasound images Himanshi Arora, Neetu Mittal	251
49	LSB Based Image Steganography With The Aid of Secret Key and Enhance its Capacity via Reducing Bit String Length Pallavi Kanojia, Mr. Vijay Choudhary	257
50	Histogram based Human Computer Interaction for gesture Recognition Dharmaraj Ojha, Rajesh George Rajan	263
51	Design of Hardware Efficient Logarithmic Converter Ramkrishna Patil, Pratibha Shingare	267
52	Efficient Implementation of Two Stage Binary Logarithmic Converter Lomesh Phalle, Pratibha Shingare	272
53	Literature Review of 3.3kW On Board Charger Topologies Sumer Inamdar, Prof. Archana Thosar,Sandeep Mante	276
54	A New Model of Light Weight Hybrid Cryptography for Internet of Things Vishal Prakash, Ajay Vikram Singh, Sunil Kumar Khatri	282
55	Improved Speed Response Of ECM Drive Using Antiwindup Concept Promit Kumar Saha, Shashank Shekhar, Dr.. Vijaya Laxmi, Dr.P. R.Thakura	286

S.No	Title	Page.No
56	NMOS Only Schmitt Trigger Based SRAM Cell R. Adithi, Soumya Dambal, Kirti S. Pande	290
57	Cascaded Artificial Neural Network Based MPPT Algorithm for PV Application Ashish Kumar, Promit Kumar Saha, Shashank Shekhar, D. V. Siva Krishna Rao K	296
58	Design of Logically Obfuscated n-bit ALU for Enhanced Security Saravanan K. , Mohankumar N.	301
59	Ambiguity in Cloud Security with Malware-Injection Attack Iva Ranjan, Ram Bhushan Agnihotri	306
60	Performance Evaluation of Moving Sink based Pollution Data Collection for Different Sink Movements in Wireless Sensor Network Mehul B. Shah, Anish Vahora	311
61	Performance Improvement of Inverted Pendulum using Optimization Algorithms Neha Kumari Singhal, Akhilesh Swarup	316
62	IoT Based Smart Wireless Home Security Systems Kushank Sehgal, Richa Singh	323
63	Categorical Image Classification Based On Representational Deep Network (RESNET) Mrs. Arpana Mahajan, Sanjay Chaudhary	327
64	A Survey Paper on the impact of “Internet of Things” in Healthcare Gayatri Saha, Richa Singh, Sonia Saini	331
65	Image processing based Tracking and Counting Vehicles Mr. Nikhil Chhadikar, Ms. Priyanka Bhamare, Mr. Krushna Patil, Mrs.Sangeeta Kumari	335
66	Efficient Neural Network For Real Semantic Segmentation Spoorthi D N, Ashwini B P	340
67	Image Compression Using Polynomial Fitting Eng. Shaimaa M. Othman, Dr .Amr E.Mohamed, Zaki Nossair, M. I. El-Adawy	344
68	Software Engineering based cost reduction Techniques for different testing models Y. Mohana Roopa, B.Yoshitha	350
69	Power System Optimisation using Ant Lion OptimisationTechnique Akshay Sunil Vikhe, Dr.A.A.Kalage	355
70	Human computer interaction based eye controlled mouse Vinay S Vasisht, Swaroop Joshi, Shashidhar,Shreedhar, C Gururaj	362

S.No	Title	Page.No
71	Advancement Of Home Appliances For Home Automation Using Human Detection J. Jeya Padmini, A. Anie Selva Jothi, Ramya Harikrishnan	368
72	Concealing the User Identity In Cloud Services Akanksha Sharma, Dr Sandeep Mathur	372
73	Performance of Synthetic Rosenblatt Process under Multicore Architecture Amit Chaurasia	377
74	Latest Trends In Security, Privacy And Trust In IoT Ms.Sudhriti Sen Gupta, Mohd Shad Khan, Tanush Sethi	382
75	Reduction of Peak-to-Average Power Ratio in OFDM system using Convex Optimization K Sravan Kumar, G Shiva Prasad, K Rama Naidu	386
76	RFID Based Smart Automatic Vehicle Management System for healthcare applications B.Pavithra, S. Suchitra, P. Subbulakshmi, J.Mercy Faustina	390
77	CNN based Leaf Disease Identification and Remedy Recommendation System Suma V, R Amog Shetty, Rishab F Tated, Sunku Rohan, Triveni S Pujar	395
78	Sharing Unused User IoT Devices in the Cloud Mrityunjay Kumar, Ram Bhushan Agnihotri, Sunil Kumar Khatri	400
79	FPGA Implementation Of Present Algorithm With Improved Security Vallish Kumar Reddy, Rao Surya, Akhil Reddy, P. Sathish Kumar	404
80	Analysis of user emotions and opinion using Multinomial Naive Bayes Classifier Surya Prabha PM, Seetha lakshmi V, Subbulakshmi B	410
81	E-Fitness Implementation in Metro Rail using IoT with help of 5G Sukanya Vuppala, Vishnu Priya Reddy Enugala	416
82	Modified Cuckoo Search algorithm based Optimal Thresholding for Color Lip Image Segmentation N. Hema Rajini	420
83	A Comprehensive Survey Of OLAP: Recent Trends Adhish Nanda, Swati Gupta, Meenu Vijrania	425
84	Image Processing based on Emotive And Perfomance Mangement System Chalumuru. Suresh, B.V.Kiranmayee, Sheikh Mujahed, K. Praveen Kanth, R. Ramesh	431
85	Web Crawling-based Search Engine using Python Sanya Goel,Mudit Bansal,Atul Kumar Srivastava,Neha Arora	436

S.No	Title	Page.No
86	Enhanced Automatic generation control of two area power system with Jaya algorithm Vipul Kumari, Saurabh Nayar, Rajdeepak Singh Raj	439
87	Adaptive PID-Fuzzy Logic Controller for Brushless DC Motor Vishal Verma, Sunita Chauhan	445
88	Data Analysis by Web Scraping using Python David Mathew Thomas, Sandeep Mathur	450
89	Set Point Tracking Control for the Short Period Dynamics of an RLV during Approach and Landing Aysha S. Hameed, Dr. Bindu. G.R	455
90	Performance Analysis for Image Security using SVM and ANN Classification Techniques Dr.R.Ganesh Babu, P. Karthika, K. Elangovan	460
91	An Intelligent Application for healthcare Recommendation using Fuzzy Logic Nikahat Mulla, Swapnali Kurhade, Meghana Naik, Nida Bakereywala	466
92	IoT Devices For Control Applications: A Review Anju Yadav, Lal Bahadur Prasad	473
93	Load Balancing in Cloud Environment using Self-Governing Agent Mercy Faustina. J, B. Pavithra, S. Suchitra, P. Subbulakshmi	480
94	Particle Swarm Optimization Algorithm for finding the brightest spot in an arena M.Adharsh, Ajay.G.Iyer, Abhinav.G.Athrey, Ashwin.V, Venkatesh V.G	484
95	Reactive Power Control and Harmonic Mitigation by using DSTATCOM with Different Controllers K.Swetha, V.Sivachidambaranathan	490
96	Novel Reliable QCA Subtractor Designs using Clock zone based Crossover Marshal Raj, Lakshminarayanan Gopalakrishnan	497
97	Eye Controlled Wheelchair with Asthenopia Detection Reshma Abraham, Ritta Maria Thaliath, Swapna Davies, Thara Jacob, Tintu Johny	502
98	A Novel approach for Denoising palm leaf manuscripts using Image Gradient approximations Dhanya Sudarsan,Deepa Sankar	506
99	Discrete fourier transform based Vowel Onset Point Detection Using Spectral Peaks Energy Arunima Das, Sarmila Garnaik	512
100	Deep Learning with Chaotic Encryption based Secured Ethnicity Recognition C. Christy, Dr. S. Arivalagan, Dr. P. Sudhakar,	515

S.No	Title	Page.No
101	Comparision of an Off-Grid Solar Power Plantbased renewable energy production Ricky Garg	521
102	Optimal Solutions of Integrated Optical and Wireless Applications Using GPON-RoF Technologies Jasmeena Singh, Dr. Amit Kumar Garg	526
103	Performance Evaluation of Bio-Inspired based Visual Tracking Algorithm A. Nirmala, Dr. S. Arivalagan, Dr. P. Sudhakar,	532
104	Power Sharing And Management Through Power Based Droop Control in DC Microgrid Saurabh Nayar, T. Ghose	538
105	Motion based Object Detection based on Background Subtraction: A Review Ayush Baral, Deepa Gupta, Lavanya Sharman	545
106	FPGA Implementation of Data Fusion Algorithms S.Sreekrishna Yadav, Vikas Mittal	550
107	A Machine Learning Approach for Detecting Malicious Websites using URL Features Akshay Sushena Manjeri, Kaushik R, Ajay MNV, Priyanka C. Nair	555
108	Hardware Implementation of DC-DC SEPIC Converter For Applications of Renewable Energy Using PWM Based Charge Controller Bhakti B. Baliwant, Ankita R. Gothane, V. B. Waghmare	562
109	Improving performance of a Computational Neural Network Library Subhash Tatale, Pooja Kharade, Altaf Shaikh, Anuj Kamble, Shashank Kuyate	566
110	Demand Forecasting of Anti-Aircraft Missile Spare Parts Using Neural Network Nikita Pawar, Prof. Bhavana Tiple	572
111	Multi-task Classification scheme for Cognitive Imagery EEG Acquired using a Commercial Wireless Headset Neha Hooda, Neelesh Kumar	579
112	A Comparative Analysis of Longitudinal and Lateral Directional Dynamics of Aircraft from Different Classes Navya Thirumaleshwar Hegde, V. I. George, C Gurudas Nayak	584
113	Modelling and Transition flight control of Vertical Take-Off and Landing unmanned Tri-Tilting Rotor Aerial Vehicle Navya Thirumaleshwar Hegde, V. I. George, C Gurudas Nayak	590
114	Performance analysis of FreeRTOS based video capture system Jashin Joseph Palatty, Srinivas Phani Chandra, Sivraj P.	595

S.No	Title	Page.No
115	An Efficient Sorting Technique for Priority Queues in High-Speed Networks Meenakshi U , Keerthi Vani R , P M Aishwarya, Sonali Agrawal	600
116	A Survey On Despeckling Filters For Speckle Noise Removal In Ultrasound Images Karthikeyan S, Manikandan T, Jaganath Babu Jai, Mazher Iqbal J, Nandalal V	605
117	SQAC Using Folding-Merging Based Squarer Hemanth M., Naveen K., Mohan P., Kirti S.Pande	610
118	SATA Protocol implementation on FPGA for Write Protection of Hard Disk Drive/Solid State Device Jeevitha L, Umadevi B, Hemavathy M	614
119	Intrusion Detection System Based on Trust Value in Wireless Sensor Networks Manish Patel, Priyanka Patel	618
120	Resource Scheduling in Vehicular Cloud Network: A Survey R. Ruhin Kouser, T.Manikandan	621
121	The Analysis of U shaped DGS for Dual Band Applications Karunaiah Bonigala, Dr.P.V.Sridevi	628
122	Smart Dashboard: A Novel Approach for Sustainable Development of Smart Cities using Fog Computing Minal Patel, Narendra Chauhan	632
123	Comprehensive study on Automated image detection by using robotics for agriculture applications Deepti Barhate ,Varsha Nemade	637
124	Sketch Based Image Retrieval using Transfer Learning Nikul Devis, Nirmal Joshy Pattara, Sherin Shoni, Shimin Mathew, Veena A. Kumar	642
125	Network Attack Prediction By Random Forest (Classification Method) M.Prasath, B.Perumal	647
126	Simulation Analysis Of Universal Flyback Converter Using Matlab Simulink Bhairavanath N. Mali, Prof. V. B. Waghmare	655
127	Modified Concept To Achieve Maximum Efficiency Of CPU Scheduling Algorithm Himani Chauhan, Anunaya Inani	660
128	Stability control of High Speed Train using Robust PID Controller Preeti Singh, M. P. R. Prasad	664
129	Disparity Maps Based Path Planning Algorithm for Autonomous Robot Navigation Akhil Appu Shetty, V. I. George , C Gurudas Nayak, Raviraj Shetty	669

S.No	Title	Page.No
130	Pre-processing of SAR Images through Compressed Sensing Shraddha Prakash Gaikwad, Dr. Preetida Vinayakray Jani	676
131	Image Classification and Text Extraction using Machine Learning Dr. R. Deepa, Kiran N Lalwani	680
132	Support vector based Indoor Scene Classification Technique Using different Features Jashandeep Singh Gill, Amanpreet Singh Brar	685
133	Optimal placement and Sizing of Compensator for Voltage Stability improvement Using Voltage Collapse Proximity Indicator Dr.Y.Venu, Santhosh kanthala	690
134	Evaluation Of Distance Measures In Content Based Image Retrieval Nehal M. Varma, Prof. Anamika Choudhary	696
135	Image Processing Based Human Pursuing Robot Mubin Sharikmaslat, Rutvik Sidhaye, Avadhut Narkar	702
136	Reliability evaluation of MPPT based interleaved boost converter for PV system Ravi Prakash, G.L.Pahuja	705
137	Elimination of Leakage Current in Grid-Tied PV Applications Anamika Prakash Yadav, Dr. U. V. Patil	710
138	Characteristic Analysis of OFDM,FBMC and UFMC Modulation Schemes for Next Generation Wireless Communication Network Systems Srikanth Kundrapu, Srilatha Indira Dutt, Nitesh Kalyan Koilada , Adithya Chowdary Raavi	715
139	Contour detection based on Gaussian filter Shraddha D. Lokmanwar, Dr. A. S. Bhalchandra	722
140	Designing of Reconfigurable Compact Bandpass Microstrip Filter Kavitha Devi C.S, Dr.H.Umadevi, Dr. Jambunath S Baligar	726
141	Source Camera Identificaton using Photo Response Noise Uniformity Mrudul S. Behare, A.S. Bhalchandra, Rajesh Kumar	731
142	ARIMA Model based Real Time Trend Analysis for Predictive Maintenance Freceena Francis, Dr. Maya Mohan	735
143	Image Processing based Real Time Obstacle Detection and Alert System for Trains Athira S	740
144	Control of Twin Rotor MIMO System Using 1-Degree-of-Freedom PID, 2-Degree-of-Freedom PID and Fractional order PID Controller Seema Chaudhary, Awadhesh Kumar	746

S.No	Title	Page.No
145	Performance Analysis of Channel Coding Techniques for Cooperative Adhoc Network Arpitha R, Chaithra B R, Usha Padma	752
146	IoT: Leading Challenges, Issues and Explication Using Latest Technologies Khushi Patel, Shraddha Vyas, Vidhi Pandya, Atufaali saiyed	757
147	Design of 9-Switch Converter for DFIG System for Active and Reactive Power Control by PID and Fuzzy Logic Controller. Mr. Mazharhussain N. Mestri, Prof. B. Sampath Kumar	763
148	Performance Analysis of Indoor VLC System Under Different System Configuration Anupma, Sujata Sengar	768
149	DC Load Voltage Measurement Using Resonant Coupled Coils Vishal Takle, Prof.A.S.Deshpande	774
150	Optimization of MFCC parameters for mobile phone recognition from audio recordings Vishal A. Hadoltikar, Varsha R. Ratnaparkhe, Rajesh Kumar	777
151	A Comparative Study of Different Cluster Mechanism for Wireless Sensor Networks Arulmurgan Aalavandhar, Amuthan Arjunan	781
152	Analysis of Markov Model through reliable Cluster Head Selection In WSN Arulmurugan Aalavandhar, Amuthan Arjunan	786
153	Land Cover Change Detection Using Convolution Neural Network Tejaswini. M, Pranuthi.P, Ravichand.S, Anuradha. T	791
154	Design and Analysis of Voltage Droop Control Technique for DC Microgrids Vivek K	795
155	Differential Evolution based Voltage Injection Scheme for Maintaining Constant Load Voltage Ashwini Tidke, Dr. A. Koshti	800
156	Self Defence Device with GSM alert and GPS tracking with fingerprint verification for women safety Shaista Khanam, Trupti Shah	804
157	TOGGLE COUNT BASED LOGIC OBFUSCATION A.V. Pavan Kumar, S. Bharathi , Ch. Meghana, K. Anusha, M. Priyatharishini	809
158	Design and Power Management of Solar Powered Electric Vehicle Charging Station with Energy Storage System T.S.Biya, Dr. M.R.Sindhu	815

S.No	Title	Page.No
159	Dynamic Task Allocation and Scheduling for Multicore Electronics Control Unit (ECU) Mohd Faizan, Anju S Pillai	821
160	Sliding mode Control and Power Sharing in Microgrid Manu Priyam	827
161	Higher-Order Sliding-Mode Observer Based Robust Controller Design for Four-Tank Coupled System Rituraj Kashyap, Neena Jaggi, Bhanu Pratap	832
162	Analysis of the Vessel Parameters for the Detection of Hypertensive Retinopathy Vinay Savant, Nayana Shenvi	838
163	CETM: A Cost-Effective Traffic Management to Enhance IoT Driven 5G Communication Systems Kavitha G, Sumaiya M.N, Indumathi. T.S	842
164	RF Planning and Optimization Practices Applied to Improve the KPI's of 4G LTE Network Aishwarya V Angadi, Yashaswini S D, Balaji K, Usha Padma	848
165	Implementation of EV Charging Station with Renewable Energy Integration Dinesh N. Pansande, S. K. Mittal	852
166	An Optimal QoS-aware multipath routing protocol for IoT based Wireless Sensor Networks Kavita Jaiswal, Veena Anand,	857
167	Mitigation of Power Quality Issues in Distribution Grid Integrated To Photovoltaic- ECS Yashashri B. Deshmukh, S. P. Adhau	861
168	NOISE REDUCTION FROM ELECTROCARDIOGRAM SIGNAL USING SIGNAL PROCESSING TECHNIQUES Adyasha Sahu, Prasanta Kumar Parida	867
169	Solar Powered Autonomous Multipurpose Agricultural Robot Using Bluetooth/Android App Ranjitha B, Nikhitha M N, Aruna K, Afreen, B T Venkatesh Murthy	872
170	Block Level SoC Verification Using Systemverilog Yadu Krishnan K, Ramesh Bhakthavatchalu	878
171	Design and development of Patch Antenna Array with Band-pass Filter for ISM Band Applications Manikandan. T, Kanagavalli.R, Kavitha. B, Mutharasi.J	888
172	New Ordered Policy Routing Protocol for Active Data Transmission in Mobile Ad-hoc Networks Krishnaiah Boyana, Venkateswara Rao Gurrala, G.V. Swamy,	892

S.No	Title	Page.No
173	Performance Analysis of Solar panel under different operating conditions Priya Gupta, K.S.Sandhu	900
174	Model based PID tuning of Antenna Control System for tracking of Spacecraft Anand Kumar Parsai ,Javed S A R Qureishi , G S Raju, K Ratnakara	906
175	Sine cosine algorithm based staircase modulation for cascaded H-bridge inverter Prashant Mishra, Aeidapu Mahesh	914
176	Cloud based Framework for IIoT Application With Asset Management Rishabh Gandhewar, Ashish Gaurav, Ketki Kokate, Harshvardhan Khetan,Hrishikesh Kamat	920
177	High Speed Memory Cell with Data Integrity in QCA Marshal Raj*, Lakshminarayanan Gopalakrishnan	926
178	Architecture Analysis and Verification of I3C Protocol Anusha Mahale, Dr Kariyappa B S	930
179	Low Power Physical Design and Verification in 16nm FinFET Technology Sreevidya.S, Ravishankar Holla, Roopaka Raghu	936
180	Detection of Permission Driven Malware in Android Using Deep Learning Techniques Sirisha P, Kamala Priya B, Aditya Kunal K, Anuradha T,	941
181	Determination of Extent of Similarity between Mimic and Genuine Voice Signals Using MFCC Features Sunil N. Nikhate, Prof. Archana K. Chaudhari, Prof.Dr. Jayant V. Kulkarni,	946
182	Performance Evolution of Reconfigurable Antenna Using Contact and Non Contact Feeding Technique Dr.V.Nandalal, Mr. V.Anand Kumar, Ms.M.S.Sumalatha, Dr.T.Manikandan	952
183	Digital Twin Ranorex Test Automation of SIPROTEC 5 Protection Devices Asha K, Dr. Kariyappa B S, Vishal Kulakarni	955
184	Digital Image Forgery Detection Techniques: A Comprehensive Review P. B. Shailaja Rani, Ashwani Kumar	959
185	An Analysis of Repository and Similarity Measures in Meteorological Data of Underwater Wireless Sensor Ruby D, Jeyachidra J	964
186	Plant Recognition using Watershed and Convolutional Neural Network N Manasa, Parul Herur, Prahari Shetty, Prarthana N and P Venkatrao	969

S.No	Title	Page.No
187	Raspberry Pi based voice-operated personal assistant (Neobot) Piyush Vashistha , Juginder Pal Singh, Pranav Jain, Jitendra Kumar	974
188	Half Psi Shaped Dual Band CP Antenna for WLAN/Wi-Fi Applications Penchala Reddy Sura, S.Narayana Reddy	979
189	Plastic Segregation Machine Using Audio Signal Analysis Meher Madhu Dharmana, L.N.Usha Mahathi, Abhinav Indarapu, B.Hari Mohan Reddy	982
190	Microstrip patch antenna array for RFID Application Deepesh Chandwani, M. Chaitanya Sai ,Runa Kumari	986
191	IDENTIFICATION OF POWER QUALITY DISTURBANCE USING NEURAL NETWORK Pavan Patil, Kishore Muley, Rahul Agrawal	990
192	Implementation of Big Data in Cloud Computing with optimized Apache Hadoop Jaskaran Singh Thind, Rajbala Simon,	997
193	Design And Development Of Software Tool For Code Clone Search, Detection, And Analysis Dethe Tukaram, Uma Maheswari B	1002
194	Analysis of Facial Expression Recognition using Histogram of Oriented Gradient (HOG) Priyanka N. Maraskolhe, Dr. A. S. Bhalchandra	1007
195	Design & Development of PV-Wind Hybrid Grid Connected System Koshy M Kuriakose, Pinkymol K P, Deepu E Koshy, Ajith Gopi ANERT	1012
196	Optimum Modelling of Damping Coefficient and its Settling Time for a Large Hydro Alternator: A Case Study on impact of Non-Electric Dynamics Er. Polly Thomas, Prof.Dr. Jaimol Thomas, Ashish Madhu K	1018
197	An FEM Based Approach for Detection of Short Circuit Faults In Transformer Windings By Magnetic Field Measurement Reshma Muraleedharan, Jineeth Joseph, Ancy Sara Varghese	1024
198	Experimental performance evaluation of various path planning algorithms for obstacle avoidance in UAVs Dawnee S, Murali Manohar S Kumar, Sushanth Jayanth, Vivek Kumar Singh,	1029
199	Optimal Filter Choice for Filtered OFDM Arpita Thakre	1035
200	Fruit Recognition and Grade of Disease Detection using Inception V3 Model Nikhitha M, Roopa Sri S, Uma Maheswari B	1040

S.No	Title	Page.No
201	Client-Side Verification Framework For Offline Architecture Of IoT Bhawana Bansal, Monika Sharma	1044
202	Sine Cosine Algorithm Based Shunt Active Power Filter For Harmonic Compensation Shikha Gautam, Mahesh Aeidapu	1051
203	Balanced Antipodal Vivaldi Antenna Design with Hexagonal Slots and Three level Geometric Patches M. Chaitanya Sai, Deepesh Chandwani	1057
204	A Novel Technique for identification of tumor region in MR Brain Image Mr.Saravanan Alagarsamy, Dr..Kartheeban Kamatchi, Dr.Vishnuvarthanan Govindaraj	1061
205	Pulse Width Modulation based Solar Charge Controller Aldrin Vaz, C Gurudas Nayak, Dayananda Nayak	1067
206	Performance Comparison between Turbo and Polar Codes Aldrin Claytus Vaz, C Gurudas Nayak* and Dayananda Nayak	1072
207	A Dielectric Filled Dual Ridged Horn Antenna(DF-DRHA) for Ultra-Wideband Applications Harish Ravichandran , Jayakrishnan V M , Sethuraman N Rao	1076
208	High Directional CPW fed Butterfly Shaped Patch Antenna for WiGig Networks Ribhu Abhusan Panda, Debasis Mishra	1081
209	Comparative Analysis of Machine Learning Algorithms for the Classification of Power System Faults Santhosh V, Sarath T V	1085
210	Comparative Analysis Of Different Mppt Techniques N. Prudhvi Raj, K. P. S. Praneeth Swamy, T. Venkata Deepika, Anjana Jain	1091
211	Memory efficient inverse DWT computation of HR-images for WVSNs/IoT Mohd Tausif, Ekram Khan, Mohd Hasan	1097
212	Salient Object Detection From The Video Streams Using An Enhanced Water Flow Approach Ruchi Kshatri, Dr.Kavita	1102
213	Computational Analysis of Anti icing system of an aircraft wing R.Udayakumar, Hana Aslam Shaikh,	1110
214	Performance Comparison between 16nm and 7nm through Physical Design Implementation Goriparthi Pradeep, Karthigha Balamurugan, Rangnekar Tejas, Swapna Rani,	1115

S.No	Title	Page.No
215	Vector Arithmetic Unit Design Using FXP-HNS Technique for Power, Delay and Area optimization Gopisingh Naik, Pratibha Shingare	1121
216	Enhancement and Removal of Noise from Medical Images by Wavelet Transform Method Neetu Mittal, Ananya Raj and Harshita Goyal	1126
217	Preserving Data Privacy in Cloud using Homomorphic Encryption Shrujana Murthy , Kavitha C.R.	1131
218	Real Time Application and CPU Utilisation Monitoring Tool Utsav Chindalia, Skanda C S, Shruthi Chandrashekar, Oshin Sharma	1136
219	Reliability Modeling and Criticality Ranking of Power Substation Farhana Fayaz, G.L.Pahuja	1141
220	Design of Generic Verification Procedure for IIC Protocol in UVM Jaideep Varier EV , Prabakar.V, Karthigha Balamurugan	1146
221	Lifting based Block-FrWF (BFrWF)for DWT computation of HR-images over WMSNs and IoT Platforms Mohd Tausif, Ekram Khan, Mohd Hasan	1151
222	Evaluation of Sense Amplifier Flip-Flop with Completion Detection Signal Sushmita M.G, Prof. Sowmya K.B	1157
223	Design and Execution of Enhanced Carry Increment Adder using Han-Carlson and Kogge-Stone adder Technique Neha Varshney, Greeshma Arya	1163
224	Practical implementation of load forecasting in smart grid: operational domain feature Monika G.Shete, Dr. P.M.Joshi	1171
225	New Operational Amplifier based Inverse Filters Dattaguru V. Kamat	1177
226	Design of Fractional Hilbert Transform ($\pi/4$) Neha Sharma	1182
227	Statistical Analysis for Active Power Loss Incorporating Distributed Generation in Distribution System Shrunkhala S. Halve, Dr. A. Koshti, Dr. R. Arya,	1185
228	An autonomous system of mobile robots for search in disaster affected sites Rajesh M, Nagaraja S.R.	1190
229	Design Of Sequential Circuit Using Data Driven Clock Gating And Multibit Flip-Flop Integration P Arunraj, Sujatha Hiremath	1195

S.No	Title	Page.No
230	Development of a Random Test Generator for Multi-Core Processor Design Verification Mohd Leesan Ul Aktab, H. V. Ravish Aradhya, Furqan Saberi	1200
231	Energy-Efficient task scheduling in cloud data center- A temperature aware approach Srichandan Sobhanayak, Ashok Kumar Turuk	1205
232	Composite Field Arithematic Based S-Box For AES Algorithm Shivakumar V Gaded, Dr.Abhay Deshpande	1209
233	Integration and Verification of Physical Layer Modules for 5G Technology B Ganesh Kumar, Dr. Kariyappa B S, Arvind Gupta	1214
234	Wavelet Based Digital Image Watermarking Algorithm Using Fractal Images Ashish Kamble, Sushama S. Agrawal	1220
235	Low Power Self-Controlled Pre-Charge Free Content Addressable Memory Nasheema H Yatagiri, Sowmya K B	1225
236	Cross-correlation based distance estimation of single line to ground faults using Elman back-propagation neural network Ayantani Bhattacharjee, Dr.Aritra Dasgupta	1230
237	Hybrid Corrective Critic Neural Network for Sentiment Classification in Community Media Jayashree Jagdale, Dr. Emmanuel M	1236
238	Direct Torque Control of BLDC Drives With Reduced Torque Pulsations Tilak Raj Sharma, Dr. Yash Pal,	1242
239	Harmonic Analysis of a Novel 17-level M2I Fed 3-Phase Induction Motor M. Hari, P. Ramesh, D. Kodandapani, P.Velrajkumar	1248
240	Justification of STL-10 dataset using a competent CNN model trained on CIFAR-10 Hardik Singh, Sweta Swagatika, Raavi Sai Venkat, Sanjay Saxena	1254
241	Enhanced Architecture for Precision Adders Archana N G, Prameela Kumari N	1258
242	Effect of Partial Shading on Vehicle Integrated PV System Arun PS, Mohanrajan SR	1262
243	Improving Web Page Access Prediction using Web Usage Mining and Web Content Mining Bharti Pooja M, Prof. Tushar J. Raval	1268

S.No	Title	Page.No
244	Image Transmission using OFDM over a modeled Shallow Water Acoustic Channel Tania S Abraham, Nithya M B, Rini Varghese Eralil, Nishara Mary K, S Santhi Jabarani	1274
245	Dynamic task scheduling algorithms in cloud computing A K M Mashuqur Rahman, K. M. Aslam Uddin, Nafija Arbe, Lulumar Jahan, Md Whaiduzzaman	1280
246	Anomaly Detection in Time Series data using Hierarchical Temporal Memory Model Anandharaj A, P. Bagavathi Sivakumar	1287
247	High Performance based Disease Prediction by RFNN Algorithm Preeti Jain, Shikha Chaudhary	1293
248	Cloud Based Dynamic Energy Management in Power System Using Message Queuing Telemetry Transport (MQTT) Protocol Polly Thomas, Jyothish P Kumar,	1301
249	Multi-Objective Based Integrated Task Scheduling In Cloud Computing Himani K Langhnoja, Prof Hetal A Joshiyara	1306
250	Gas Leakage Detection Based On IOT Suma V, Ramya R Shekar , Akshay Kumar A	1312
251	An Intrusion Detection System Based Secured Electronic Service Delivery Model Sonam Biswas, Abhishek Roy	1316
252	Single Phase Multilevel Inverter with Reduced Components Shubham Patil, Dr. S. M. Bakre,	1322
253	Design analysis of Landing gear system of an aircraft R.Udayakumar, Mohammed Ibrahim	1326
254	Emergence of Neuromorphic Chips to simulate Human Brain K. Anirudh Bharadwaj	1331
255	Influence Of Big Data In The Healthcare Sector M Murugadoss, Sonia Saini, Richa Singh	1335
256	Discovery, Assessment and Risk Calculation Framework for Connected Automated Vehicles Anand Mahadeorao Dhobaley, Dayanand D. Ambawade	1342
257	Syslog Daemon for Security Event Monitoring using UDP Protocol Roja C, Jayanthi P N	1349
258	Performance of MUSIC Algorithms For DOA Estimation for Coherent And Non Coherent Detection Aditya N. Borkar	1355

S.No	Title	Page.No
259	A Novel Method for Plant Leaf Malady Recognition using Machine Learning Classifiers Swetha V, Rekha Jayaram	1360
260	Design and Simulation of Reconfigurable Digital Modulator using Vivado System Generator Pooja N Murthy	1366
261	Delay and Power Analysis of Current and Voltage Sense Amplifiers for SRAM at 180nm Technology Anjali Surkar, Vanita Agarwal	1371
262	ProTecht – Implementation of an IoT based 3 –Way Women Safety Device Trisha Sen, Arpita Dutta, Shubham Singh,Vaegae Nveen Kumar	1377
263	Comparative study of on-drive-current improvement techniques in charge plasma TFET Tarun Kumar Bhardwaj, Deepti Kakkar, Balwinder Raj	1385
264	Minimization of Black hole Attacks in AdHoc Networks using Risk Aware Response Mechanism D. John Aravindhar, S. G. Gino Sophia, Padmaveni Krishnan, D. Praveen Kumar	1391
265	An energy efficient IoT based Healthcare System based on clustering technique M.Ganesan, N.Sivakumar	1395
266	LeCAM: A novel metric for detecting DDoS attacks Sunny Behal, Parvinder Singh	1400
267	Test Methodology for Detecting Short-Channel Faults in Network On-Chip Networks using IoT Raja Krishnamoorthy, P.T.Kalaivaani, Beulah Jackson	1406
268	Power Quality Enhancement of MMG using Active Custom Power Conditioner M.T.L.Gayatri, Varimadla Mahesh, Alivelu M Parimi	1418
269	Reliability Modeling and Evaluation of Five-Level Converter Integrated with Photovoltaic System Anil Kalyan, G. L. Pahuja	1424
270	A 3-6 GHz CMOS Low Noise Amplifier with 14.8 dB Gain and 3 dB Noise Figure for UWB Applications Kusuma M S, S Shanthala, Cyril Prasanna Raj P	1430
271	Effect of Temperature on GaAs Junctionless FinFET using High k-Dielectric Anuj Chhabra, Ajay Kumar, Rishu Chaujar	1434
272	A Genetic Algorithm for Solving Optimal Power Flow Problem T. Murali Mohan, T. Nireekshana	1438

S.No	Title	Page.No
273	Securing IoT applications with OP-TEE from hardware level OS Arshad Nehal, Priyanka Ahlawat	1441

Additional Papers:

A Performance Evaluation of Correlated and Dynamic Topic Modeling on a QA Dataset **1445**
Bindu K.R., Gowrikrishna G H, Latha Parameswaran

Design and implementation of an industrial gateway: Bridging sensor networks into IoT **1452**
Aditi khandelwal, Ishita Agrawal, Malaserene I, S.Sankar Ganesh, Rajeev Karothia

Mechanization of G, C and D Chord playing system using servomotors for Acoustic Guitar **1456**
Peeyush Garg, Anshuman Kamboj, Ajay shankar, Abhishek Kumar

6G-Next Gen Mobile Wireless Communication Approach **1461**
D. Kalbande, Z. Khan, S. Haji, R. Haji