

2019 International Conference on Communication and Signal Processing (ICCSP 2019)

**Melmaruvathur, Tamil Nadu, India
4-6 April 2019**

Pages 1-489



**IEEE Catalog Number: CFP1989M-POD
ISBN: 978-1-5386-7596-0**

**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:	CFP1989M-POD
ISBN (Print-On-Demand):	978-1-5386-7596-0
ISBN (Online):	978-1-5386-7595-3

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

CURRAN ASSOCIATES INC.
proceedings
.com

CONTENTS

S.NO	TITLE	P.NO
1.	Early Identification of Fire by Utilization of Camera <i>Suyog J. Pathare, Gurpreet Kaur Bhombra, Komal D. Kamble and Gajanan D. Nagare</i>	0001
2.	Modeling of Capacitive Coupled Interconnects for Crosstalk Analysis in High Speed VLSI Circuits <i>Bhaskar Gugulothu, B.Rajendra Naik and Sampath Boodidha</i>	0007
3.	Removal of Powerline Interference from ECG Signal using FIR, IIR, DWT and NLMS Adaptive Filter <i>Shubhankar Saxena, Rohan Jais and Malaya Kumar Hota</i>	0012
4.	Signal Compression Method based on Discrete Linear Chirp Transform <i>Ankur Thakur and Davinder Singh Saini</i>	0017
5.	Implementation of ECC on FPGA for WSN- A Survey <i>Kalkundri Ravi, RajashriKhanai and Kalkundri Praveen</i>	0022
6.	Left-Handed Circularly Polarized Two-Element Antenna Array for Vehicular Communication <i>Deven G. Patanvariya, Kalyan S. Kola and Anirban Chatterjee</i>	0027
7.	Artificial Intelligence based Network Intrusion Detection with Hyper-Parameter Optimization Tuning on the Realistic Cyber Dataset CSE-CIC-IDS2018 using Cloud Computing <i>V. Kanimozhi and T. Prem Jacob</i>	0033
8.	Background Modeling for HEVC Compressed Videos using Radial Basis Network <i>Devesh Samaiya, Akshay Joshi and Karunesh. K. Gupta</i>	0037
9.	Interference Mitigation Scheme to Support WBANs Co-Existing with WLANs <i>M. Thachayani</i>	0041
10.	Analysis of LHCP and RHCP for Microstrip Patch Antenna <i>Bharath Kunooru, Srujana Vahini Nandigama, Sikundlapuram Sandhya Rani and D. RamaKrishna</i>	0045
11.	Design and Development of Wearable Device for Continuous Monitoring of Sleep APNEA Disorder <i>Santhoshini Arulvallal, Snehalatha.U and Rajalakshmi.T</i>	0050
12.	Wearable Cardiorespiratory Monitoring Device for Heart Attack Prediction <i>Priyanka Sasidharan, T. Rajalakshmi and U. Snehalatha</i>	0054
13.	Secret Multiple Share Creation with Color Images using Visual Cryptography <i>M. Karolin and T. Meyyappan</i>	0058
14.	Efficient Enhancement of Hepatic and Splenic Carcinoma in Canine using Image Processing <i>Pazhunkaran Sneha Pauly, Bindhu K Rajan and Sindhu K Rajan</i>	0063

15.	Speech Recognition in Kannada using HTK and Julius: A Comparative Study <i>Roshan S. Sharma, Sri Harsha Paladugu, Jeeva Priya K and Deepa Gupta</i>	0068
16.	A Review on Performance Analysis of ZFS & BTRFS <i>Devyani Gurjar and Satish S. Kumbhar</i>	0073
17.	Prevention of Skin Problems in Patients using Prosthetic Limb: A Review of Current Technologies and Limitations <i>Sakthivel Sankaran, Pallikonda Rajasekaran Murugan, Jennifer Christy Johnson, Hazzana Jasmin Sheik Abdullah, Christal Marshalla Nirmal Raj and Deepika Ashokan</i>	0077
18.	Vibroarthographic Signal Analysis of Bone Disorders using Arduino and Piezoelectric Sensors <i>Rajalakshmi. G, Vinothkumar. C, Anne Frank Joe.A and Thaj Mary Delsy.T</i>	0082
19.	VLSI Architectures for 8 Bit Data Comparators for Rank Ordering Image Applications <i>Sindhu.E and Vasanth.K</i>	0087
20.	Multi-objective Hybrid Fuzzified PSO and Fuzzy C-Means Algorithm for Clustering CDR Data <i>A.Jaya Mabel Rani and A. Pravin</i>	0094
21.	Analysing the Competency of Various Decision Trees towards Community Formation in Multiple Social Networks <i>Kota Divya, Prakash M and P.Pabitha</i>	0099
22.	A Review on Internet of Things Protocol and Service Oriented Middleware <i>Y. Justin Dhas and P. Jeyanthi</i>	0104
23.	Pipelined Parallel Rotational Visual Cryptography (PPRVC) <i>Raviraja Holla M and Suma D</i>	0109
24.	Routing Protocols for Constraint Devices in an Internet of Things Network <i>Syed Yasmeen Shahdad, Mudassir Khan, Habeeba Sultana, Mohammad Ashfaq Hussain and Syeda Meraj Bilfaqih</i>	0114
25.	Analysis of Dichroic Mirror Assisted Free Space Optical Link Performance in Turbulent Channel <i>Rahul Bosu and Shanthi Prince</i>	0118
26.	Improved Preamble Detection using B-Spline Filter <i>Siba Shankar Rout</i>	0123
27.	Assessment of Watershed Areas of Western and Eastern Ghats using Geospatial Techniques <i>Sathish kumar.B, Geetha.P and Soman K.P</i>	0127
28.	A Brief Review on: Implementation of Lossless Color Image Compression <i>Rutuja Channe, Shrikant Ambatkar, Sandeep Kakde and Shailesh Kamble</i>	0131
29.	A Brief Review on Reversible Data Hiding in Encrypted Image <i>Krutika Dhande and Rutuja Channe</i>	0135
30.	A Brief Review on: MRI Images Reconstruction using GAN <i>Priyanka Shende, Mahesh Pawar and Sandeep Kakde</i>	0139

31.	Breast Cancer Classification using Capsule Network with Preprocessed Histology Images <i>Anupama M A, Sowmya V and Soman K P</i>	0143
32.	OTRA based Realization of Second Order Inverse Lowpass Filter and Inverse Bandpass Filter <i>Subhasish Banerjee, Mourina Ghosh and Pulak Mondal</i>	0148
33.	A Review on Teleconsultation and Telediagnosis using IoT Module <i>Yogesh Ahir, S. V. Rathkanthiwar and Yogesh Kale</i>	0153
34.	A Deep Learning RCNN Approach for Vehicle Recognition in Traffic Surveillance System <i>Murugan. V, Vijaykumar V.R and Nidhila. A</i>	0157
35.	A Brief Review on: Implementation of Digital Watermarking for Color Image using DWT Method <i>Aditya Awaghate, Rajesh Thakare and Sandeep Kakde</i>	0161
36.	Performance Analysis of Fuzzy Logic Controlled DC-DC Converters <i>Saon Maity, Soham Ghosh, Rounak Pal, Sanjana Saha, Saikat Samanta, Sayan Guha, Riya Mondal, Ranjan Sau, Sadhitra Pan, Ankit Das and Jayabrata Maity</i>	0165
37.	Implementation of Deep Learning Algorithm with Perceptron using TensorFlow Library <i>Arshiya Begum, Farheen Fatima and Asfia Sabahath</i>	0172
38.	A Miniature 2.4GHz ‘L shaped’ Microstrip Band Stop Filter with Spur microstrip line and Via-hole grounding <i>G.Revathi and R.Kalidoss</i>	0176
39.	Generating Digital Signature using Facial Landmark Detection <i>Chittaranjan Pradhan, Debanjan Banerjee, Nabarun Nandy and Udita Biswas</i>	0180
40.	Recommendation System for Crop Identification and Pest Control Technique in Agriculture <i>Avinash Kumar, Sobhangi Sarkar and Chittaranjan Pradhan</i>	0185
41.	New Realization of Multi-function Filter using Bulk-Driven Differential Difference Current Conveyor <i>Vikas Kumar, Bal Chand Nagar, Shekhar Suman Borah and Mourina Ghosh</i>	0190
42.	Enhanced PRACH Detection by Wavelet De-noising <i>Siba Shankar Rout</i>	0195
43.	PERC-An Emotion Recognition Corpus for Cognitive Poems <i>Sreeja P.S and G.S. Mahalakshmi</i>	0200
44.	A Fine Spectrum Sensing Procedure based on Modulated Wideband Converter <i>Sneha Gem Mathew and S. Chris Prema</i>	0208
45.	Single Tone Background Removal Applying Dual Threshold and Dynamic Clustering <i>S Ghosh, S P Pathak, K Kabasi, T K Moharana, M Bagchi, N Dasgupta, S Chaudhari and S Kumar</i>	0212
46.	Pattern Analysis on Cymatics-based Images for Pronunciation <i>Yash Munoth, N. Vignesh Kumar, V. Vishal, L.K. Pavithra and R.Srinivasan</i>	0216
47.	A Survey on Various Attacks in Bitcoin and Cryptocurrency <i>S. Shalini and H.Sanathi</i>	0220

48.	A Study on Power Optimization Techniques in PSoC <i>Sayani Singha, Apurva Sitesh Singh, Santashraya Prasad and Aftab Alam</i>	0225
49.	A Survey on Passenger-centric, Cost-effective Airport Design via End-less Runway <i>Sweta Shree Dash, Debabrata Singh, Namrata P. Mohanty and Shrabanee Swagatika</i>	0230
50.	Cultivation of Cash Crops under Automated Greenhouse using Internet of Things (IoT) <i>Namrata P.Mohanty, Debabrata Singh, Akankhya Hota and Santosh Kumar</i>	0235
51.	K-highest Fuzzy Min-Max Network to Classify Histopathological Images <i>Santhos Kumar A., A. Kumar, V. Bajaj and G. K. Singh</i>	0240
52.	A Comprehensive Review on Speckle Denoising Techniques in Satellite Images <i>L. Ashok Kumar and M.R. Ebenezar Jebarani</i>	0245
53.	A Complex Network Approach for Plant Growth Analysis using Images <i>Sajith Variyar V V, Gopalakrishnan E.A, Sowmya V and Soman K.P</i>	0249
54.	A Novel Virtual Reality Game for Disaster Management Applications <i>Rohith R Krishnan, Sushil S, R Hrishikesh, Sayooj Devadas, Ganesh A and Gayathri Narayanan</i>	0254
55.	A Methodical Review of Diagnosis and Classification of Leukemia using Blood Microscopic Images <i>V. Jeya Ramya and S. Lakshmi</i>	0258
56.	An Implementation of Secure Authentication Scheme in VANETs <i>Nithya Ranganathan, Edna Elizabeth, Bhavana Pooja, Bhrindhaa Devi and Farzeen Azeema</i>	0263
57.	Recent Review of Reliability Maintenance in Cellular Communication <i>Supraja. G and V. Jeyalakshmi</i>	0268
58.	Performance Assessment of M-ary ASK, FSK, PSK, QAM and FQAM in AWGN Channel <i>G. Shyam Kishore and Hemalatha Rallapalli</i>	0273
59.	Performance Analysis of Wireless Body Area Sensor Analytics using Clustering Technique <i>Rakhee, Kriti Ohri, Vijaya Saraswathi R and L Jai Vinita</i>	0278
60.	Design of Rectifier at ISM Band for RF Energy Harvesting of Low Powers <i>B. Sri HarshaVardhan, Jagadeesh Chandra Prasad R and S. Natarajamani</i>	0282
61.	Acquisition and Tracking of Optical Signals in Free Space <i>Roshni.V.S, Devi Darshanaa.R, Madhumita Ganesh, Preetha.K, Rahul Bosu and Shanthy Prince</i>	0286
62.	Li-Fi based Indoor Positioning System <i>Neel Jitendra Sattigiri, Garima Patel, Sougata Mondal, Richi Pal and Shanthy Prince</i>	0290
63.	SVD based Privacy Preserving Recommendation Model using Optimized Hybrid Item-based Collaborative Filtering <i>Abhaya Kumar Sahoo, Chittaranjan Pradhan and Bhabani Shankar Prasad Mishra</i>	0294

64.	Character Recognition in Historical Handwritten Documents – A Survey <i>Nija Babu and Soumya A</i>	0299
65.	Analysis and Implementation of ECC Algorithm in Lightweight Device <i>Shantha A, Renita J and Edna Elizabeth N</i>	0305
66.	A Comparative Analysis of Machine Learning Algorithms in Detecting Deceptive Behaviour in Humans using Thermal Images <i>Adithia Ravindran, G Gokul Krishna, Sagara and Sarath S</i>	0310
67.	Detection of Liver Cancer using Image Processing Techniques <i>Atrayee Dutta and Aditya Dubey</i>	0315
68.	An Efficient Design of 16 Bit MAC Unit using Vedic Mathematics <i>Akella Srinivasa Krishna Vamsi and Ramesh S R</i>	0319
69.	Region based Scheduling Algorithm for Pedestrian Monitoring at Large Area Buildings during Evacuation <i>Karthik V, Karthik S, Satheesh Kumar S, Selvakumar D, Visvesvaran C and Mohammed Arif A</i>	0323
70.	Demand and Revenue Forecasting through Machine Learning <i>Narayana Darapaneni, Sreelakshminarayanan Muthuraj, Prabakar K and Madhavan Sridhar</i>	0328
71.	Attack on Trace Buffer: A Study on Observability versus Security in Post-Silicon Debug <i>Agalya Rajendran and Muthaiah Rajappa</i>	0332
72.	A Survey on Identification of Glioblastoma Multiforme and Low-Grade Glioma Brain Tumor Type <i>Denis Patel, Fagun Vankawala and Bhumika Bhatt</i>	0335
73.	A Survey on Forecasting Methods by using Various Types of Extreme Learning Machine <i>Adyasha Rath and Debahuti Mishra</i>	0340
74.	Modified Cylindrical Shaped Dielectric Resonator Antenna for Multiple Applications <i>S. Anusuya and T. Shanmuganantham</i>	0345
75.	Design and Development of Textile Antenna for Multiband Applications <i>K. Jayabharathy and T. Shanmuganantham</i>	0348
76.	A Printed Antenna with LTE/GSM/UMTS/WLAN and Wi-MAX Bands for Automotive Applications <i>S. Pradheepa and T. Shanmuganantham</i>	0352
77.	Design of Radome FSS Antenna for L,S,C and X-band Applications <i>R. Sowndarya and T. Shanmuganantham</i>	0355
78.	Comparative Analysis of Different Machine Learning Algorithms in Classification of Suitability of Renewable Energy Resource <i>Aamir Shahab and M.P. Singh</i>	0360
79.	Latent Fingerprint Image Enhancement using Gabor Functions via Multi-Scale Patch based Sparse Representation and Matching based on Neural Networks <i>R. Jhansi rani and K.Vasanth</i>	0365

80.	Parameterizable FPGA Implementation of SHA-256 using Blockchain Concept <i>Devika K N and Ramesh Bhakthavatchalu</i>	0370
81.	Performance Analysis of 6T SRAM Cell on Planar and FinFET Technology <i>Aswathy A Kumar and Anu Chalil</i>	0375
82.	Augmented Reality Engine Applications: A Survey <i>Kanaiya Rana and Bhavesh Patel</i>	0380
83.	Performing Predictive Analysis using Machine Learning on the Information Retrieved from Production Data of Oil & Gas Upstream Segment <i>Aruna Kumar K, R J Ramasree and Mohammed Faisal</i>	0385
84.	Minimization of Power Loss with Enhancement of the Voltage Profile using Optimal Placement of Distribution Transformer and Distributed Generator <i>Rudresh B Megadum and D.B.Kulkarni</i>	0392
85.	Compact out-of-Phase Wideband Substrate Integrated Waveguide based Power Divider Loaded by Slots for Ku and K Band Applications <i>Gunjan Kumari and Rusan Kumar Barik</i>	0396
86.	Driver Face Recognition and Sober Drunk Classification using Thermal Images <i>Sooraj Menon, Swathi J, Anit S K, Anu P Nair and Sarath S</i>	0400
87.	Motor Control Design for Position Measurement and Speed Control <i>Rajesh Kannan Megalingam, Shree Rajesh Raagul Vadivel, Bhanu Teja Pula, Sarveswara Reddy Sathi and Uppala Sai Chaitanya Gupta</i>	0405
88.	Test Setup for Analysis of Torque on DC Motor Shaft and its Possible Applications <i>Rajesh Kannan Megalingam, Shree Rajesh Raagul Vadivel, Abhijeet Prem, Venkata Sai Yashwanth Avvari, Borusu Charan Satya Chandra Sairam and Sriniketh Konduri</i>	0410
89.	Privacy-Preserving Routing for Wireless Network using OPERA <i>S. Pavithra, V. Sivakumar, S. Pavithra and S. Tamilarasi</i>	0415
90.	Driver Emotion Recognition for Enhancement of Human Machine Interface in Vehicles <i>Mrinalini Patil and Veni.S</i>	0420
91.	Low Noise, High Gain and Low Power Bulk Injection Mixer for MB-OFDM based UWB Receiver <i>K. Sudarshan and V. Vaithianathan</i>	0425
92.	Smart Home Automation using Computer Vision and Segmented Image Processing <i>Mohammad Hasnain.R, Rishabh.S, Mayank.P and Swapnil.G</i>	0429
93.	Compact CPW-Fed Square Ring Annular Slot Antenna for WBAN Applications <i>Arpan Shah and Piyush N. Patel</i>	0434
94.	Enhanced Character Recognition using Deep Neural Network- A Survey <i>Desai Hinduja, R. Dheebhika and T. Prem Jacob</i>	0438

95.	A Modern Approach for Image Forgery Detection using BRICH Clustering based on Normalised Mean and Standard Deviation <i>G.Nirmala and K.K.Thyagarajan</i>	0441
96.	Embedded Zero-Tree Wavelet Coding with Selective Decomposition Bands <i>K. L. Narasihimhaprasad, M. V. Nagabhushanam, V. V. Satyanarayana Tallapragada and Jaya Krishna Sunkara</i>	0445
97.	Clone Attack Detection using Random Forest and Multi Objective Cuckoo Search Classification <i>P. Sherubha, P. Amudhavalli and S.P. Sasirekha</i>	0450
98.	Efficient Route Map based Ant Colony Optimization for Route Discovery in VANET <i>S.P. Sasirekha, P. Amudhavalli and P. Sherubha</i>	0455
99.	Optimal Gamma Correction based Gaussian Unsharp Masking Framework for Enhancement of Histopathological Images <i>Rangu Silpasai, S. V. Raghavendra Kommuri, Himanshu Singh, Anil Kumar and Lokendra K. Balyan</i>	0460
100.	Improved Edge Detection Methods in OCT Images using a Hybrid Framework based on CGWO Algorithm <i>M. Saya Nandini Devi and S. Santhi</i>	0465
101.	Design and Implementation of an Android Application for Smart Shopping <i>Rajesh Kannan Megalingam, Souraj Vishnu, Swathi Sekhar, Vishnu Sasikumar, Sreekumar S and Thejus R Nair</i>	0470
102.	Gamma Corrected Fusion Framework of Dominant Orientation and Edge based Textural Histogram Equalization for Image Enhancement <i>P. Sujith Reddy, S. V. Raghavendra Kommuri, Himanshu Singh, Anil Kumar and Lokendra K. Balyan</i>	0475
103.	Piecewise Gamma Corrected Weighted Framework for Fuzzified Dynamic Intensity Equalization for Optimal Image Enhancement <i>Anurag Kumar, S. V. Raghavendra Kommuri, Himanshu Singh, Anil Kumar and Lokendra K. Balyan</i>	0480
104.	A Design of Body Channel Communication Transceiver using Manchester Decoder for High-Speed Applications <i>S. Vijayalakshmi and V. Nagarajan</i>	0485
105.	Image Segmentation based on Markov Random Field Probabilistic Approach <i>Venmathi.A.R, E.N. Ganesh and N. Kumarathanan</i>	0490
106.	Voice-based Hand Orthotic Device <i>Rajesh Kannan Megalingam Egumadiri Vijay, Polisetty Naga Venkata Koteswara Naveen, Chennareddy Pavanth Kumar Reddy and Dega Chandrika</i>	0496
107.	Pairing-Free CP-ABE based Cryptography Combined with Steganography for Multimedia Applications <i>V. Reshma, S. Joseph Gladwin and C. Thiruvenkatesan</i>	0501
108.	Vision based Vehicle/Pedestrian Detection in Traffic Surveillance System <i>S. Suryakala, K. Muthumeenakshi and S. Joseph Gladwin</i>	0506

109.	Transceiver Antenna for Telemetry and TeleCommand Applications <i>SushmaShankarappa and V.SambasivaRao</i>	0511
110.	Design and Simulation of Dual Band Microstrip Patch Antenna with Heterogeneous Substrate <i>Padmavati S. T and Lalitha Y. S.</i>	0514
111.	A Review on Facial Emotion Recognition Techniques <i>Jacintha .V, Judy Simon, Tamilarasu .S, Thamizhmani .R, Thanga yogesh. K and J. Nagarajan</i>	0517
112.	Distance and Energy Aware Device to Device Communication <i>Anubhav Kumar, Anirudh S Jois and T K Ramesh</i>	0522
113.	Automatic Fire Rescue System using IoT <i>T. Sahithi, T. Pranathi and A. Pravin</i>	0526
114.	Computational Analysis between Software and Hardware Implementation of Sobel Edge Detection Algorithm <i>Rajesh Kannan Megalingam, Malavika Karath, Prajitha P and Goutham Pocklassery</i>	0529
115.	Design and Development of Multilayer Dual Polarized Antenna with High Isolation at X-Band for Microwave Imaging Applications <i>Vadlamudi Roja and M.V.S Prasad</i>	0534
116.	Machine Learning for Plant Leaf Disease Detection and Classification – A Review <i>L. Sherly Puspha Annabel, T. Annapoorani and P. Deepalakshmi</i>	0538
117.	Grab Force Measurement for Hand Orthosis <i>Rajesh Kannan Megalingam, Haritha T and Urmila.O</i>	0543
118.	Convolutional Neural Network based Image Classification and Detection of Abnormalities in MRI Brain Images <i>P. Muthu Krishnammal and S.Selvakumar Raja</i>	0548
119.	A Review on Multi-Model Medical Image Fusion <i>Srinivasu Polinati and Ravindra Dhuli</i>	0554
120.	Pattern Generation and Dimensionality Reduction using CNN for Image Restoration <i>K.Sakthidasan @ Sankaran, S.Sasikumar, N.Vasudevan, V.R.Prakash and L.Babitha</i>	0559
121.	Access Control based Efficient Hybrid Security Mechanisms for Cloud Storage <i>K.Sakthidasan @ Sankaran, N.Vasudevan, V.R.Prakash and P. Kumara Guru Diderot</i>	0564
122.	Image Water Marking using DWT to Encapsulate Data in Medical Image <i>K.Sakthidasan @ Sankaran, H.Abhi Rayna, Vaishnavi Mangu, V.R.Prakash and N.Vasudevan</i>	0568
123.	A Novel Approach for Better Throughput in Near Field Communication Built by Ternary QAM using Tanner Tool <i>S. Syed Ameer Abbas, P. Vishnoo Priyaa and A. Vinitha</i>	0572
124.	Ultra-Low Power m-Sequence Code Generator using New XOR Gate for Body Sensor Node Applications <i>S.V.Raghu Sekhar Reddy, T.N.S.R.Revanth and Sarada Musala</i>	0577

125.	Spectrum Sensing using Sparse Bayesian Learning <i>Aiswarya K V, Gundabattula Naga Rama Mangaiah Naidu, Kalaiarasi K, Kavya D and Kirthiga S</i>	0582
126.	Performance Analysis of Multi-hop Cooperative System under κ-μ Shadowed Fading Channels <i>Riyaz Hussain Shaik and Rama Naidu. K</i>	0587
127.	Hand Gesture Recognition and Implementation for Disables using CNN'S <i>Kollipara Sai Varun, I. Puneeth and T. Prem Jacob</i>	0592
128.	Signet: A Deep Learning based Indian Sign Language Recognition System <i>Sruthi C. J and Lijiya A</i>	0596
129.	Arduino based Safety Device for the Visually Challenged <i>Swagat Das, Sonal Patro, Ritika Das and Antara Mishra</i>	0601
130.	An Efficient Data Security in Medical Report using Block Chain Technology <i>Mary Subaja Christo, Anigo Merjora A, Partha Sarathy G, Priyanka C and Raj Kumari M</i>	0606
131.	Classification of Epileptic Seizures using Recurrence Plots and Machine Learning Techniques <i>Dattaprasad A. Torse, Rajashri Khanai and Veena V. Desai</i>	0611
132.	Wavelet based Analysis of EEG Signal for Detecting various Conditions of Driver <i>K. Viswavidhan Reddy and Navin Kumar</i>	0616
133.	Quaternion Orthogonal Design based Sphere Decoder for MIMO Systems <i>Ranjitha M, Kirthiga S, Jayakumar M and Nirmala Devi M</i>	0621
134.	Synthesis of Reconfigurable LFSR and Tradeoff Analysis on Single and Multiclock Scrambling-Modulation Process using Spartan-6 <i>S. Syed Ameer Abbas, S. Saranya and S. Parkavi</i>	0626
135.	Classification of Pitch Disguise Level with Artificial Neural Networks <i>Thiramdas Narendra, Athulya M S and Sathidevi P S</i>	0631
136.	Reconfigurable Filter Design for Multiband Noise Cancellation <i>Manisha M and Jawahar A</i>	0636
137.	Gaussian Noise Removal Algorithm using Statistical Method <i>Amiya Halder and Debadri Samaddar</i>	0640
138.	Image based Plant Disease Detection in Pomegranate Plant for Bacterial Blight <i>Sharath D M, Akhilesh, S Arun Kumar, Rohan M G and Prathap C</i>	0645
139.	Peer Assisted Parallel Downloading System <i>Akshat Shetty, Simran Mhatre, Nisheet Sinvhil and Kailas K. Devadkar</i>	0650
140.	Video Captioning using Deep Learning: An Overview of Methods, Datasets and Metrics <i>M. Amaresh and S. Chitrakala</i>	0656
141.	Design and Implementation of the Smart Glove to Aid the Visually Impaired <i>Sambhav Jain, Sushanth D, Varsha, Vijetha N Bhat and J V Alamelu</i>	0662

142.	Web Camera Primarily based Face Recognition Victimization VIOLA JONE'S Rule with Arduino Uno <i>N. Gnana Mohan Reddy, G. Ram Sai and A. Pravin</i>	0667
143.	Developing a System for Trauma Identification based on the Difference from the Normal Human Emotion with Adaptive Neuro Fuzzy Inference System <i>R. Sofia and D. Sivakumar</i>	0672
144.	Self Configurations, Optimization and Protection Scenarios with wireless sensor networks in IIoT <i>S. Syed Ameer Abbas and K. Lakshmi Priya</i>	0679
145.	Improvement of PSNR in Image Denoising by using DWT Algorithm <i>Sanchesh Gautam and Hemant Amhia</i>	0685
146.	Reduction of Impulse Noise by using k-mean Clustering Segmentation Approach <i>Vishnu Kant Chaurasia and Hemant Amhia</i>	0690
147.	Array Pattern Correction in Presence of Antenna Failures using Metaheuristic Optimization Algorithms <i>Priyanka Patel, Gunjan Kumari and Prerna Saxena</i>	0695
148.	Smart Phone as a Controlling Device for Smart Home using Speech Recognition <i>Sakshi Bajpai and D. Radha</i>	0701
149.	Detecting the Optical Disc in Digital Fundus Image with Automated and Efficient Method <i>Anigo Merjora.A, Daphny Jass. J.C, Irene Grace.A and J.Mary Subaja</i>	0706
150.	Fault Diagnosis of Delta Sigma ADC using National Instruments-Multisim and Implementation using SVM <i>Nagaraja P and Sadashivappa G</i>	0710
151.	Test Pattern Generation using NLFSR for Detecting Single Stuck-at Faults <i>N.Varun Teja and E. Prabhu</i>	0716
152.	Low Latency Max Log MAP based Turbo Decoder <i>Aswathy Narayanan, Senthil Murugan and Ramesh Bhakthavatchalu</i>	0721
153.	Retrieval Driven Classification for Mammographic Masses <i>K. Kiruthika, Devi Vijayan and Lavanya. R</i>	0725
154.	Systolic Array Implementation of Mix Column and Inverse Mix Column of AES <i>Midhun Sasikumar, Sreehari K N and Ramesh Bhakthavatchalu</i>	0730
155.	A Wide Band Balun Design using Metamaterial Technique for Low Frequency Antenna Application <i>Sougata Chatterjee, S. Suresh Kumar, Anil N Raut, K. Sakthidasan @ Sankaran and P. M. Rubesh Anand</i>	0735
156.	Advanced Encryption Standard Crypto Block Verification Utility <i>Adithya K, K.R.M. Vijaya Chandrakala and Srinivasarao Nakka</i>	0739
157.	Channel Estimation for High Speed Wireless Systems using Gaussian Particle Filter and Auxiliary Particle Filter <i>Gargi Rajam, P. Sandeeptha and Sudheesh P</i>	0744

158.	Identification of Plant Disease using Image Processing Technique <i>Abirami Devaraj, Karunya Rathan, Sarvepalli Jaahnavi and K Indira</i>	0749
159.	Analysis of Vehicle Activities and Live Streaming using IOT <i>Philo Stephy A, Preethi C and K.Mohana Prasad</i>	0754
160.	Multi Modal Image Fusion: Comparative Analysis <i>Harpreet Kaur, Deepika Koundal and Virender Kadyan</i>	0758
161.	Development of Alphanumeric Digital Fuel Gauge for Automotive Applications <i>Vijay Waghmode and Avinash Harale</i>	0762
162.	Classification of Fruit Diseases using Feed Forward Back Propagation Neural Network <i>S. Abirami and M. Thilagavathi</i>	0765
163.	Crop Yield Prediction and Efficient use of Fertilizers <i>S.Bhanumathi, M.Vineeth and N.Rohit</i>	0769
164.	Design of Smart Helmet for Accident Avoidance <i>Jesudoss A, Vybhavi R and Anusha B</i>	0774
165.	Deep Learning based Automated Billing Cart <i>Ragesh N, Giridhar B, Lingeshwaran D, Siddharth P and K P Peeyush</i>	0779
166.	W-band CMOS LNA with 29 dB Gain and 5.2 dB Noise Figure for mm-wave Imaging Applications <i>Rajendra Chikkanagouda and Cyril Prasanna Raj P</i>	0783
167.	Reconstruction of MRI Images based on Compressive Sensing <i>Shashi Kiran. S and Suresh K.V</i>	0787
168.	Lane Datasets for Lane Detection <i>Suvarna Shirke and R.Udayakumar</i>	0792
169.	Fingerprint Image Identification for Crime Detection <i>Pavithra. R and K.V. Suresh</i>	0797
170.	A Survey on Various Fabric Defect Detection Methods <i>Jacintha and S. karthikeyan</i>	0801
171.	An Efficient Fuzzy C-Means Clustering based Image Dissection Algorithm for Satellite Images <i>P. Kumara Guru Diderot, N.Vasudevan and K.Sakthidasan @ Sankaran</i>	0806
172.	Compressed Air Generator Integrated with Renewable Energy Source for Military Application <i>M. Priyadharsini, T.S.A. Narayanan, Tarif Singh, K. Sakthidasan @ Sankaran and P. M. Rubesh Anand</i>	0810
173.	Multivariate Time-series Classification for Automated Fault Detection in Satellite Power Systems <i>Dheepadharshani S, Anandh S, Bhavinaya K B and Lavanya R</i>	0814
174.	GUI based Detection of Unhealthy Leaves using Image Processing Techniques <i>Velamakanni Sahithya, Brahmadevara Saivihari, Vellanki Krishna Vamsi, Parvathreddy Sandeep Reddy and Karthigha Balamurugan</i>	0818
175.	Equal Gain Combining Technique in Analog Feedback Communication System <i>Richa Tengshe, Navin Kumar and Anatoliy Platonov</i>	0823

176.	Improvement of Video Human Activity Recognition by using ANN Approach <i>Sapana Mahajan and Hemant Amhia</i>	0829
177.	Parameter Estimation and Prediction using Rotational Invariant Techniques in MIMO System using USRP <i>Karthikeyan.S Sooryaa Vignesh.T Sri Sai Sathya Keshav.A Subhash chandran. S and Kirthiga.S</i>	0833
178.	Deep Learning based Pedestrian Detection at all Light Conditions <i>Koti Naga Renu Chebrolu and P.N. Kumar</i>	0838
179.	Performance Comparison of Weed Detection Algorithms <i>Sarvini T, Sneha T, Sukanya Gowthami G S, Sushmitha S and R Kumaraswamy</i>	0843
180.	Prediction and Diagnosis of Heart Disease Patients using Data Mining Technique <i>Mamatha Alex P and Shaicy P Shaji</i>	0848
181.	Cluster based Reliable Communication for 5G Network <i>Vivek Kumar Singh, P. Samundiswary and M. Sivasindhu</i>	0853
182.	OCR System for Automating Answer Script Marks using Auto Resonance Network <i>U Pavithra, Sneha M R, Sagar Srivatsa S R, Ravichandra T and V M Aparanji</i>	0857
183.	Controller for Charging Electric Vehicles at Workplaces using Solar Energy <i>K.Sankaraditya Vikas, B. Raviteja Reddy, S.G.Abijith and M.R. Sindhu</i>	0862
184.	Storage and Availability Aware Fragment Placement for P2P Storage Systems <i>Kevin Sijo Puthusseri, Adhrit Shetty, Mrunmayee Patil and Kailas K. Devadkar</i>	0867
185.	A Survey on Secured Wireless Body Sensor Networks <i>Swati G. Mavinkattimath, Rajashri Khanai and Dattaprasad A. Torse</i>	0872
186.	Average Information based Spectrum Sensing for Cognitive Radio <i>C. Geetha Priya, S.Sowmiya Sri, M.Renganayagi and T.M. Varsha</i>	0876
187.	Selection of Single Potential Embryo to Improve the Success Rate of Implantation in IVF Procedure using Machine Learning Techniques <i>Sujata N Patil, Uday V Wali and M K Swamy</i>	0881
188.	Dual Watermarking in Tele-radiology using DWT for Data Authentication and Security <i>K.Vinothini, S.K. Mydhili, S. Periyayagi and G. Sukanya</i>	0887
189.	Cryptanalysis of the Grain Family of Ciphers: A Review <i>Hridya P R and Jimmy Jose</i>	0892
190.	3D Point Cloud Registration using A-KAZE Features and Graph Optimization <i>Dayananda Kumar N.C, K.V Suresh and Dinesh R</i>	0898
191.	Performance Analysis of Wallace Tree Multiplier with Kogge Stone Adder using 15-4 Compressor <i>A.Sundhar, S.Deva tharshini, G.Priyanka, S.Ragul and C.Saranya</i>	0903
192.	DGS based Multiband Frequency Reconfigurable Antenna for Wireless Applications <i>M. Jenath Sathikbasha and V.Nagarajan</i>	0908

193.	Low Latency Semi-iterative CORDIC Algorithm using Normalized Angle Recoding and its VLSI Implementation <i>Anirban Chakraborty and Ayan Banerjee</i>	0913
194.	Reseeding LFSR for Test Pattern Generation <i>Patare Snehal Dilip, Geethu Remadevi Somanathan and Ramesh Bhakthavatchalu</i>	0921
195.	Design and Implementation of Intelligent Crutches for Medical Applications <i>Rajesh Kannan Megalingam, Greeshma MG and Soumya S Pillai</i>	0926
196.	A Review on Microstrip Antennas with Defected Ground Structure Techniques for Ultra-Wideband Applications <i>F A. Lalitha Bhavani Konkyana and B. Alapati Sudhakar</i>	0930
197.	Design of Millimeter Wave LC Oscillators for 5G Applications <i>Shravan Ramesh, Nithin M. and Harish M Kittur</i>	0935
198.	A Novel Architecture of Smart Healthcare System on Integration of Cloud Computing and IoT <i>Neelam Sanjeev Kumar and P. Nirmalkumar</i>	0940
199.	Transfer Learning with ResNet-50 for Malaria Cell-Image Classification <i>A. Sai Bharadwaj Reddy and D. Sujitha Juliet</i>	0945
200.	Performance Enhancement of Okamura Model using Correction Factor <i>Mohamed Shakir and N. Rakesh</i>	0950
201.	Comparative Analysis of Three Single Trait Biometric Authentication Models <i>Balaka Ramesh Naidu, K.V.L Bhavani, Ch Someswara Rao and P.V.G.D Prasad Reddy</i>	0956
202.	Challenges and Solutions in Motion Surveillance - A Survey <i>Karthika Pragadeeswari C and Yamuna G</i>	0960
203.	Real-time Multi Source Speech Enhancement for Voice Personal Assistant by using Linear Array Microphone based on Spatial Signal Processing <i>Dinesh K, Prakash R and Madhan Mohan P</i>	0965
204.	Smart Health Monitoring System through IOT <i>Ananth S, Sathya P and Madhan Mohan P</i>	0968
205.	Enhanced Vulnerable Pedestrian Detection using Deep Learning <i>Zahid Ahmed, R. Iniyavan and Madhan Mohan P</i>	0971
206.	Design and Simulation of OFDMA Transceiver for High Speed 5G Wireless Network using Immense PSO-GA <i>Purushothaman.K.E., Madhuvathani.V and Nagarajan.V</i>	0975
207.	Enhancement of Noise Reduction in Phase Amplitude Signal for Combinatorial Circuits through DQPSK <i>K. Thulasi and V.Nagarajan</i>	0980

Additional Paper

	Adaptive Channel Equalization using Teaching Learning based Optimization <i>D. Suneel Varma P Kanvitha and K.R. Subhashini</i>	0985
--	--	------