

2017 Third International Conference on Sensing, Signal Processing and Security (ICSSS 2017)

**Chennai, India
4-5 May 2017**



**IEEE Catalog Number: CFP17K68-POD
ISBN: 978-1-5090-4930-1**

**Copyright © 2017 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:	CFP17K68-POD
ISBN (Print-On-Demand):	978-1-5090-4930-1
ISBN (Online):	978-1-5090-4929-5

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

CURRAN ASSOCIATES INC.
proceedings
.com

ICSSS2017- SENSING, SIGNAL PROCESSING & SECURITY

S. NO	PAPER ID	TITLE AND AUTHOR'S NAME	PAGE NO
1	2017_004	Analysis of Emerging Video Coding Techniques for Enhanced Streaming <i>V. Sulochana, B. Shanthini</i>	1-8
2	2017_006	Sub-system Model for Data Collection and Distributed Sensing Search Technique For Internet of Things Applications <i>Sriraghav.K, Vidya.N, Varshitha.G.J, Sriharsha Jayanthi, Sarath Chandran.K.R</i>	9-14
3	2017_015	Design and Analysis of TEM Horn antenna for GPR applications <i>Surendra Kota, N.Gunavathi</i>	15-22
4	2017_016	Investigation on Dielectric Resonator Antennas <i>Surendra Kota, N.Gunavathi</i>	23-28
5	2017_018	Mutual Authentication for IoT Smart Environment Using Certificate-less Public Key Cryptography <i>Dania Qara Bala, Soumyadev Maity, Sanjay Kumar Jena</i>	29-34
6	2017_020	Low Voltage Low Power Sub-threshold Operational Amplifier in 180nm CMOS <i>Chetali Yadav, Sunita Prasad</i>	35-38
7	2017_021	Performance Analysis and Implementation of Different Pumping Techniques on an EDFA Amplifier <i>Rajesh Mishra, N.K. Shukla, C.K. Dwivedi</i>	39-44
8	2017_024	Extraction of Single Channel from Mixed Audio Sample using Adaptive Factorization <i>Jasreen Kaur, Shailaja Gaikwad</i>	45-47
9	2017_028	Energy Efficient Routing in Mobile Ad-hoc Network <i>Bava Rinku K, Patel Manish M, Patel Megha B</i>	48-53
10	2017_030	Jellyfish Attack Detection and Prevention in MANET <i>Patel Pooja B, Patel Manish M, Patel Megha B</i>	54-60
11	2017_032	Comparison between UPQC, iUPQC and improved iUPQC <i>Sayali Paithankar, Ranjit Zende, Laxmi N</i>	61-64
12	2017_036	Optimal Trajectory Planning based on Bidirectional Spline-RRT* for Wheeled Mobile Robot <i>Priyanka Sudhakara, Velappa Ganapathy and Karthika Sundaran</i>	65-68

ICSSS2017- SENSING, SIGNAL PROCESSING & SECURITY

13	2017 _038	Raspberry PI Based Integrated Autonomous Vehicle Using LabVIEW <i>Kunja Bihari Swain, Shubhendu Dash, Suman Sekhar Gouda</i>	69-73
14	2017 _039	Smart Industry Pollution Monitoring and Controlling using LabVIEW based IoT <i>Kunja Bihari Swain, G. Santamanyu, Amiya Ranjan Senapati</i>	74-78
15	2017 _041	Cattle Health Monitoring System using Arduino and LabVIEW for Early Detection of Diseases <i>Kunja Bihari Swain, Satyasopan Mahato, Meerina Patro, Sudeepta Kumar Pattnayak</i>	79-82
16	2017 _042	The Enhanced Content Based Image Retrieval System and Classification of Infected Vegetables <i>Belsha.N, Hariprasad.N</i>	83-88
17	2017 _044	Extraction of Segmented Vein Patterns using Repeated Line Tracking Algorithm <i>Bhagyashree Besra, Ramesh Kumar Mohapatra</i>	89-92
18	2017 _046	Sensor Pattern Noise based Source Anonymization <i>Ninad N. Dafale, Ruchira Naskar</i>	93-98
19	2017 _047	A Secure Three-Party Authentication Protocol for Wireless Body Area Networks <i>Rahul Vishwakarma, Ramesh Kumar Mohapatra</i>	99-103
20	2017 _050	Compact Circular Ring Shaped Monopole UWB MIMO Antenna <i>Anjali Chaudhari, Minal Dhanvijay, Anuradha Pattekar, Vidya Jadhav, Rajiv Kumar Gupta</i>	104-107
21	2017 _053	Hardware Validation for Intelligibility Improvement of NELE on DSP Processor <i>Arvind K. , Premananda B.S.M, Siva Yellampalli</i>	108-113
22	2017 _054	Signal Generation Employing Chebyshev Polynomial For Pulse Compression With Small Relative Side-Lobe Level <i>Ankur Thakur, Salman Raju Talluri</i>	114-118
23	2017 _055	Vehicle Network Security Testing <i>Jihas Khan</i>	119-123
24	2017 _059	Optic Disc Segmentation using Graph cut Technique <i>Suvarna Kulkarni, Prof. Suresh Annadate</i>	124-127

ICSSS2017- SENSING, SIGNAL PROCESSING & SECURITY

25	2017 _061	Performance Analysis of Supervised Machine Learning Techniques for Sentiment Analysis <i>Biswa Ranjan Samal and Mrutyunjaya Panda</i>	128-133
26	2017 _062	Hardware Software Co-Design Simulation Modeling for Image Security Concept using Matlab-Simulink with Xilinx System Generator <i>Mohammed G Vayada, Hepi R Patel, Bikash R Muduli</i>	134-137
27	2017 _063	Real Time Monitoring of Substation using Cloud Computing <i>Ashwini Raut</i>	138-147
28	2017 _066	Experimental Investigations on Stability and Noise Issues of Michelson Interferometer based Fiber Optic Hydrophones <i>Priscilla Grace George, R Rajesh, Sreehari C V, Vivek K, Praveen T V, Sham Kumar</i>	148-153
29	2017 _068	Squids Species Classification using Fuzzy Inference System Based on Morphometric Measurements <i>K. Himabindu, S. Jyothi D.M.Mamatha</i>	154-159
30	2017 _069	Non-cognitive Color and Texture Based Image Segmentation Amalgamation with Evidence Theory of Crop Images <i>Masoom Jain and Mohammed G Vayada</i>	160-165
31	2017 _072	Churn Prediction analysis Using Various Clustering Algorithms in KNIME Analytics Platform <i>I Franciska, B Swaminathan</i>	166-170
32	2017 _074	Evaluation of Generalization Based K-Anonymization Algorithms <i>Devyani Patil, Ramesh K. Mohapatra, Korra Sathya Babu</i>	171-175
33	2017 _076	DAPS:Dairy Analysis and Prediction System using Technical Indicators <i>Ronak Chudasama, Sagar Dobariya, Komal Patel and Hezal Lopes</i>	176-180
34	2017 _077	Leakage Current Sensing Techniques <i>Soanal S. Patil, Ranjith M. Zende</i>	181-185
35	2017 _079	Solar Power Water Pumping System <i>Sonal S.Patil, Ranjith M.Zende</i>	186-190
36	2017 _080	Investigation on Mutual Coupling Suppression Using Polygon Structure of Microstrip Patch Antenna Array <i>K. R. Kashwan, N. Elavarasi</i>	191-196

ICSSS2017- SENSING, SIGNAL PROCESSING & SECURITY

37	2017 _081	Secure Key-distribution in IoT Cloud Networks <i>Soumya Ranjan Moharana, Sourav Kanti Addya, Anurag Satpathy, Ashok Kumar Turuk, Banshidhar Majhi, V.K.Jha</i>	197-202
38	2017 _082	M- Commerce Shopping using NFC <i>Jay Dave, Sagar Gondaliya, Bhumi Patel, Arlina Mascarenhas, Maya Varghese</i>	203-213
39	2017 _084	Script Identification from Camera Based Tri-Lingual Document <i>Gururaj Mukarambi, Satishkumar Mallapa, B. V. Dhandra</i>	214-217
40	2017 _087	Classification of Brain MRI Using SVM and KNN Classifier <i>Vijay Wasule, Poonam Sonar</i>	218-223
41	2017 _088	Improved Pose Estimation by Inlier Refinement for Visual Odometry <i>Rohan More, Rahul Kottath , Jegadeeshwaran R, Vipin Kumar, Vinod Karar, Shashi Poddar</i>	224-228
42	2017 _089	Development of NO2 Sensor Based on Ti Modified ZnO Nano Wires <i>Rutuja D. Bhusari, Niranjan S. Ramgir, Komal M. Avhad , R. Jishita, R. Navneethan, A. K. Debnath, K. P. Muthe, S. C. Gadkari</i>	229-233
43	2017 _093	Integrated Mashup Service Using Data Mining Logic <i>Priti V. Rane, Umesh Kulkarni</i>	234-236
44	2017 _095	A Back-up Protection of Teed-transmission Line Using Taylor-Kalman-Fourier Filter <i>Abhishek Kumar, P Suresh Babu, N V Phanendra Babu, Saptarshi Roy</i>	237-241
45	2017 _096	VM Live Migration Time Reduction using NAS based algorithm during VM Live Migration <i>Preeti P. Thakre, Vaishali N. Sahare</i>	242-246
46	2017 _098	Design and development of 48V PMBLDC motor for radiator fan application by using ANSYS Maxwell software <i>Atul J. Pawar, Anupama Patil</i>	247-252
47	2017 _104	Securing Multi-Cloud by Auditing <i>S. Naveen Vignesh Kumar, R. Meenakshi</i>	253-258
48	2017 _106	An IPv6 E-Learning Tool with Integrated Network Configuration Simulator <i>Chiniaah Aatish, Ramluckun Pooja, Sanoo Manisha Singh</i>	259-263

ICSSS2017- SENSING, SIGNAL PROCESSING & SECURITY

49	2017_107	Determination of Deformation of Composite Plate Using Harmonic Analysis <i>Komal Govindalwar, Vijaykumar Bhanuse, Jitendra A Gaikwad, Sanika S Patankar, Jayant V Kulkarni</i>	264-268
50	2017_108	Analysis and Classification of Power Quality Events using Hilbert Transform and Fuzzy Expert System <i>P. Kalyana Sundaram, R. Neela</i>	269-274
51	2017_109	Development of Electronic Nose based on ZnO Nano Wires for Toxic Gas Detection <i>Komal M. Avhad, Niranjan S Ramgir, Rutuja Bhusari, R. Jishita, R.Navneethan, Akash Avhad, V. M. Aranke, Rohini Panajkar , A. K. Debnath, Rabi Datta, T. K. Saha, K. P. Muthe, S. C. Gadkari</i>	275-278
52	2017_112	Driver Assistant for the Detection of Drowsiness and Alcohol Effect <i>Prajnyajit Mohanty, Pallem Siddharth, Kunja Bihari Swain, Rakesh Kumar Patnaik</i>	279-283
53	2017_114	Hybrid adaptive Routing algorithm for 2D Mesh On-Chip Networks <i>Gogula Krishnan S, Inbarasan T and Chitra P</i>	284-289
54	2017_115	A Novel method for Recognizing Eye Movements using NN classifier <i>Harikrishna Mulam, Dr. Malini Mudigonda</i>	290-295
55	2017_116	Sensor based Color Sorting System for leather shoe components <i>Malathy Jawahar, K.C. Divya, V. Thankaiselvan</i>	296-300
56	2017_118	Classification Of MRI Brain Tumor and Mammogram Images Using Learning Vector Quantization Neural Network <i>Ravindra Sonavane, Poonam Sonar and Surendra Sutar</i>	301-307
57	2017_119	Wideband Four Arm Log-Periodic Planar Antenna with Wi-Fi Band Rejection <i>G. Krishna Reddy, D. Punniamoorthy, Vikram S. Kamadal, S. Srinivas</i>	308-312
58	2017_120	Realization and Comparative Analysis of Angle of Arrival Computation for Adaptive Antenna Array Topology <i>Mane Sunita Vijay, Bombale U.L.</i>	313-317

59	2017 _123	Brain Tumor Detection Using SVM Classifier <i>Mr. T. Sathies Kumar , K. Rashmi, Sreevidhya Ramadoss, L.K. Sandhya, T.J. Sangeetha</i>	318-323
60	2017 _127	Design of Y Junction in RSIW with Chamfered Bends for V-band Applications <i>Tabassum Sayed, Richa Shreyam, Ridhi Garg, Shalini Shah, Malay Ranjan Tripathy</i>	324-329
61	2017 _128	Design of H-Plane Y Junction in RSIW for C-band Applications <i>Richa Shreyam, Ridhi Garg, Tabassum Sayed, Rajiv Jayaswal</i>	330-334
62	2017 _134	A Proposed System for Modifying Aspect Based Opinion Mining for Ranking of Products <i>Blety Babu Alengadan, Shamsuddin S.Khan</i>	335-338
63	2017 _135	PSO based Obstacle Detection for Indoor Cleaning Robot <i>S.Pavithra, P.T.V.Bhuvaneswari</i>	339-344
64	2017 _136	IoT Enabled Plant Soil Moisture Monitoring Using Wireless Sensor Networks <i>A.M.Ezhilazhahivithra, P.T.V.Bhuvaneswari</i>	345-349
65	2017 _140	Implementation of Digital Lock-In and Concentration Measurement for Wavelength Modulation Spectroscopy based Sensors using MATLAB <i>Manish Chandra, Aditi Sharma, Amrit Roy, Anuya Venkatesh, Sudhir S Kamble, JK Radhakrishnan, Upendra Kumar Singh</i>	351-356
66	2017 _142	Dual-band Compact MIMO Antenna for Wi-MAX and WLAN Applications <i>Anuradha Pattekar, Minal Dhanvijay, Vidya Jadhav, Anjali Chaudhari, Rajiv Kumar Gupta</i>	357-360
67	2017 _146	Identification and Counting of Mature Apple Fruit Based on BP Feed Forward Neural Network <i>Shreya Lal, Santi Kumari Behera, Prabira Kumar Sethy and Amiya Kumar Rath</i>	361-368
68	2017 _148	Comparative analysis of parallelised shortest path algorithms using Open MP <i>Uditi and Arun M</i>	369-378
69	2017 _150	Parallelization of Digit Recognition System using Deep Convolutional Neural Network on CUDA <i>Srishti Singh, Amrit Paul, Arun M</i>	379-383

ICSSS2017- SENSING, SIGNAL PROCESSING & SECURITY

70	2017_ECE09	Smart Collision Avoidance and Driver Alert Recognition (SCADAR) System <i>Kalaivani. P, Pretheep Kumar R, Thrshan J, Shakthi Kolapan R</i>	384-388
71	2017_ECE11	Identification of Moisture, Glucose, Sucrose, Fructose Region in Honey Sample using NIR Spectroscopy <i>G.Rajalakshmi , Dr.A.Gopal</i>	389-391
72	2017_ECE13	Hyperspectral Image Analysis techniques on Remote Sensing <i>R. Priyanka Iyer, Archanaa Raveendran, S.K.Thai Bhuvana, Kavitha Raju</i>	392-396
73	2017_ECE16	Regulation of Speed of DC Machine Using Super Lift Converter <i>Venkatesh.V, Yamini.L, C.Kamalakannan</i>	397-402
74	2017_ECE17	A Novel Approach as an Aid for Blind, Deaf and Dumb People <i>Rajapandian B, Harini V, Raksha D, Sangeetha V</i>	403-408
75	2017_ECE26	Building Management System in Metro Rail <i>Sripriya s, Divya. V, Dr. T.Babu</i>	409-413
76	2017_ECE28	Design of Feedpump Condition Monitoring Using Remote Webpage <i>C. Lakshmi, K. Lavanya, T. Babu</i>	414-416
77	2017_ECE29	GWO based tuning of PID controller for a Heat Exchanger process <i>K. Anbumani, R. Ranihemamalini, G. Pechinathan</i>	417-421
78	2017_ECE30	BhrtyArtana - A Pipe Cleaning and Inspection Robot <i>Vaani I, Simerna J. Sushil, Vani Kunjamma U.S, Akshaya Ramachandra, Thulasi Bai V, Thyla B</i>	422-425
79	2017_ECE31	Automatic Feeding System for Aquaculture <i>K. Krishna Kishore, P. Vamsi Krishna, D. Srikanth</i>	426-429
80	2017_ECE32	Design and Implementation of High Speed Gabor Filter with Variable Thresholding Process for Disease Detection <i>K.Radhakrishnan, G.Gayathiri, Devi Sri, R. Dhanalakshmi, M. Elakkiya, ,</i>	430-435
81	2017_ECE33	Design and Implementation of Digital Notice Board <i>R. Rani Hemamalini, Aarthy M, Abhineyaa A, Adithi R, Aswitha S,</i>	436-439

ICSSS2017- SENSING, SIGNAL PROCESSING & SECURITY

82	2017_ECE34	The Performance Analysis of PID Controller with Set-point Filter and Anti Integral Windup for a FOPDT Thermal Process <i>Abdul Razak Mohamed Rashid, Peer Mohamed Siddikhan, Chinnappan Selvakumar, Maruthai Suresh</i>	440-443
83	2017_ECE36	Ant Star Fuzzy Routing for Industrial Wireless Sensor Network <i>Muthukumaran Kannan, Chitra Krishnamoorthy, Selvakumar Chinnappan</i>	444-446
84	2017_ECE37	Effect of Window Length in Combining Blind Source Separation and Beamforming <i>R. Ruben Johnson</i>	447-449
85	2017_ECE38	Hybrid Lossless and Lossy Compression Technique for ECG Signals <i>Kamyar Nemati and Kannan Ramakrishnan</i>	450-455
86	2017_ECE39	Optimal Data Dissemination over Wireless Network <i>P. Kalyan chakaravarthi, K.Suriyakrishnaa</i>	456-462
87	2017_ECE40	Improvement of Network Lifetime with Security and Load Balancing Mobile Data Clustering for Wireless Sensor Networks <i>A.Abdulasik, K.Suriyakrishnaa</i>	463-468
88	2017_ECE41	Image Denosing And Deblurring Using Framelet Decomposition <i>K.S.Sabarika and S.Selvan</i>	469-473
89	2017_IT13	Passive Sensing And Detection Of Boats Along Coastline Using Static Sensors <i>R.Kavitha, M.Thayaambika, Malini P V, Almelu.N</i>	474-479
90	2017_IT14	Vehicle Pollutants Control using Sensors and Arduino <i>R.Priyanka, S.K. Thai Bhuvana, Archanaa Raveendran</i>	480-484
91	2017_IT15	Efficient Detection of Missing Object Using Zigbee Technology <i>D.Shaloom Immaculate, P.Latha</i>	485-489
92	2017_IT16	Detection of Malicious Nodes to Avoid Data Loss in Wireless Networks Using Elastic Routing Table <i>A.Vijayaraj, S.Indhuja</i>	490-496
93	2017_IT17	A Predictive Model for Kidney Failure E-Health <i>S. Ancy, K. Cornelius</i>	497-502

ICSSS2017- SENSING, SIGNAL PROCESSING & SECURITY

94	2017_IT26	MySQL to CASSANDRA Conversion Engine <i>Giridhara Gopalan M, Prasanna C, Srihari Krishna YV, Shanthini B, Arulkumar A</i>	503-508
95	2017_IT28	Snappy Surrounding Alert for Android <i>R. Arunkumar, Ms.TharaniVimal</i>	509-513
96	2017_IT29	A Review of Traditional and SWARM Search Based Feature Selection Algorithms for Handling Data Stream Classification <i>Dr.S.Sasikala, D.Renuka Devi</i>	514-520
97	2017_IT31	Social Network Based Model for Dengue Prevention <i>Rathimala Kannan, Menagaeswary A/P Govindasamy, Sreenivasan Jayashree, Chinnasamy Agamudainambi Malarvizhi</i>	521-523