2017 IEEE 8th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON 2017)

New York City, New York, USA 19-21 October 2017



IEEE Catalog Number:

ISBN:

CFP17G31-POD 978-1-5386-1105-0

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:
 CFP17G31-POD

 ISBN (Print-On-Demand):
 978-1-5386-1105-0

 ISBN (Online):
 978-1-5386-1104-3

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



Content

Sl. No.	Paper ID	Title	Page No.
1	1570349184	Subcarrier Allocation in LTE Network Deployment with Mobility	1-8
2	1570368918	A Framework for Data Center Site Risk Metric	9-15
3	1570370185	The Design of Ultra Low Noise CMOS Transimpedance Amplifier for Biosensing Applications	16-19
4	1570370228	Urban Legislation Assessment by Data Analytics with Smart City Characteristics	20-25
5	1570374815	LTE Fallback Optimization Using Decision Tree	26-30
6	1570375573	Fast CS Algorithm for Chirp Signals Parameters Estimation using Multi-Resolution DCFT Atom Transformation	31-36
7	1570377255	Battery Independence: Reducing the Dependence on Batteries in Wearable Computing Through Energy Harvesting Techniques	37-46
8	1570378502	Enhanced Topology Based 9 Level H-bridge Inverter	47-52
9	1570379588	Scaled Offset PSO based PTS for PAPR Reduction in OFDM systems	53-57
10	1570380677	Artificial Swarm Intelligence Amplifies Accuracy when Predicting Financial Markets	58-62
11	1570382008	Addressing Fake News: Open Standards & Easy Identification	63-69
12	1570382928	Electromagnetic Analysis Method for Ultra Low Power Cipher Midori	70-75
13	1570383379	An Efficient Automated Technique for Epilepsy Seizure Detection Using EEG signals	76-82
14	1570383394	Smart Phone Application Development for Monitoring Epilepsy Seizure Detection based on EEG signal Classification	83-87
15	1570383545	New Sparsity Based Pansharpening Algorithms for Hyperspectral Images	88-93
16	1570383584	Debayering RGBW Color Filter Arrays: A Pansharpening Approach	94-100
17	1570383719	Development of a Motion Controlled Robotic Arm	101-105
18	1570384235	Development of a Radiation Detecting Rover System	106-108
19	1570385793	Data Analysis of Cyber-Activity within High Performance Computing Environments	109-114
20	1570386153	Enhancing Sink Node Anonymity in Tactical Sensor Networks Using a Reactive Routing Protocol	115-121

	•		
21	1570386311	A New Tree Target Tracking Algorithm in WSNs	122-126
22	1570386484	Smart Power-Strip: Home Automation by Bringing Outlets into the IoT	127-130
23	1570388992	Proactive Algorithm to Reduce Power Consumption and Handovers in Heterogeneous Mobile Networks	131-137
24	1570389120	Channel Sparsity-Aware Recursive Least Squares Algorithms for Nonlinear System Modeling and Active Noise Control	138-144
25	1570390012	Smartwatch-Based Transcription Biometrics	145-149
26	1570390196	A Comparative of Range Free Localization Algorithms and DV-Hop using the Particle Swarm Optimization Algorithm	150-157
27	1570391558	DOA Using Uniform/Nonuniform Linear and Uniform Circular Antenna Arrays with Bayesian Compressive Sensing	158-161
28	1570391703	Epilepsy Seizure Detection Using EEG signals	162-167
29	1570392338	Developing a Machine Learning Mechanism For Detecting Urdu Spam	168-172
30	1570392651	Efficient Infrastructure Damage Detection and Localization Using Wireless Sensor Networks, with Cluster Generation for Monitoring Damage Progression	173-178
31	1570392739	Recommended Practices for the Specification of Multi-Agent Systems Requirements	179-185
32	1570393015	Mastcam Image Enhancement Using Estimated Point Spread Functions	186-191
33	1570393020	A Comparative Study of Several Supervised Target Detection Algorithms for Hyperspectral Images	192-196
34	1570393036	Towards Human-powered IoT: Optimizing Harvested Power from Human Daily Motion	197-202
35	1570393039	Fuzzy Logic Approach for GNSS Signal Classification Using RHCP And LHCP Antennas	203-208
36	1570393041	Topology Maintenance of Ad Hoc Wireless Sensor Networks with an Optimum Distributed Power Saving Scheduling Learning Automata Based Algorithm	209-216
37	1570393519	Keystroke-based Continuous Authentication while Listening to Music on Your Smart-phone	217-225
38	1570394066	No Inter-Network Tracking Area Update Scenario Toward 5G Network	226-230
39	1570394133	Bio-medical Image Enhancement using Hybrid Metaheuristic coupled Soft Computing Tools	231-236
40	1570394135	Cellular Image Processing using Morphological Analysis	237-241
41	1570394136	Image based Skin Disease Detection using Hybrid Neural Network coupled Bag-of-Features	242-246
42	1570394198	Efficient Exact Paths For Dyck and semi-Dyck Labeled Path Reachability	247-253

43	1570394212	Design of a SiC Implantable Rectenna for Wireless In-Vivo Biomedical Devices	254-257
44	1570394290	Keystroke Biometric studies with Hidden Markov Model and Its Extension on Short Fixed-Text Input	258-264
45	1570394370	LTE Downlink throughput modeling using Neural Networks	265-270
46	1570394378	Design of High Performance Dual-Gate Nano-Scale In0:55Ga0:45As Transistor with modified Substrate Geometry	271-277
47	1570394397	Runway Detection Using Unsupervised Classification	278-281
48	1570394402	An Efficient Clustering Scheme in Vehicular Ad-Hoc Networks	282-287
49	1570394427	Autonomic Security for Zero Trust Networks	288-293
50	1570394442	Denial of Service Attack Detection using Dendritic Cell Algorithm	294-299
51	1570394476	EVALUATING THE PERFORMANCE OF DENSITY GRID-BASED CLUSTERING USING ABC TECHNIQUE FOR EFFICIENT ROUTING IN WSNs	300-305
52	1570394505	Re-joining of authorized nodes in MANETs using EGSR scheme and detection of internal attacks using 2ACK scheme	306-311
53	1570394550	An Energy Efficient Approach for Corona based Wireless Sensor Network	316-321
54	1570394563	A Joint Sparsity Approach to Tunnel Activity Monitoring Using High Resolution Satellite Images	322-328
55	1570394579	Multi-modal data fusion of Voice and EMG data for Robotic Control	329-333
56	1570394593	A Crowdsensing Algorithm for Imputing Zika Outbreak Location Data	334-340
57	1570394623	Security Solutions and Design Scenarios for Software Defined Data Centers	341-351
58	1570394628	IBM Research Cloud Evolution & Efficiencies	352-355
59	1570394633	Efficient Structural Health Monitoring with Wireless Sensor Networks using a Vibration-Based Frequency Domain Pattern Matching Technique	356-362
60	1570394639	Packet Scheduling Bandwidth Type-Based Mechanism for LTE	363-368
61	1570394642	A Performance-Aware I/O Interface for 3D Stacked Memory Systems	369-371
62	1570394643	Analyzing the Effect of DoS Attacks on Network Performance	372-376
63	1570394670	Design of K- user massive MIMO networks	377-383
64	1570394702	Assessing the Credibility of Vehicle Data Reported by Anonymous Sources	384-388

	Г		
65	1570394728	Low-Power and High-Performance 2.4 GHz RF Transmitter for Biomedical Application	389-391
66	1570394829	Analytical Study Of Primary User Emulation Attack Detection Techniques In Cognitive Radio Adhoc Network	392-395
67	1570394862	Internet of Things and Body Area Network-An Integrated Future	396-400
68	1570394874	A Framework for Big Data Technology in Health and Healthcare	401-407
69	1570394969	Dynamic Fractional Frequency Reuse (FFR) Scheme for Two-Tier Network in LTE	408-413
70	1570395034	MATLAB-GUI Based Simulation Framework For Spintronics	414-416
71	1570395038	SMART HOME CLEANSING APPLIANCE- AN INNITIATIVE FOR SMART LIVING	417-419
72	1570395169	Resource Scheduling in Non-Orthogonal Multiple Access (NOMA) based Cloud-RAN Systems	420-424
73	1570395175	A New Mobile SIP Proxy Integration Solution to Increase Scalability in 5G Mobile Operators	425-430
74	1570395179	Outage Probability and System Optimization of SSD-based Dual-Hop Relaying System with Multiple Relays	431-436
75	1570395183	Two-Way Signal Space Cooperative Network with a DF Relay - Outage and Optimization	437-442
76	1570397438	Total Variation Denoising Method to Improve the Detection Process in IR Images	443-449
77	1570399007	Hear the Heart: Daily Cardiac Health Monitoring Using Ear- ECG and Machine Learning	450-453
78	1570399696	PulsePrint: Single-arm- ECG Biometric Human Identification Using Deep Learning	454-458
79	1570360804	A Portable Real-time Scene Recognition System on Smartphone	459-464
80	1570374885	Residual Squeeze CNDS Deep Learning CNN Model for Very Large Scale Places Image Recognition	465-469
81	1570379215	Enhanced Load balancer with Multi -layer processing architecture for heavy load over cloud Network	472-475
82	1570380414	Web Based Electric Home Appliance Controller and Monitoring System	476-479
83	1570383580	LTE Dynamic Scheduling Scheme for Massive M2M and H2H Communication	480-484
84	1570383595	A Comparative Analysis of Simulation and Experimental Results on RPL Performance	485-489
85	1570383597	The Design and Implementation of a Smart Parking Meter for Internet of Vehicle (IoV)	490-495
86	1570385244	Heterogeneous Network Formation by Non collaborative Coexistence Mechanism	496-501
87	1570385827	RGB Pixel Analysis of Fingertip Video Image Captured From Sickle Cell Patient With Low and High Level of Hemoglobin	502-508

88	1570386489	A Real Time Spectrum Scanning Technique based on Compressive Sensing for Cognitive Radio Networks	509-514
89	1570386947	Security and Privacy Risks in Electronic Communications: A User's Assessment	515-520
90	1570392982	Cooperative adaptive cruise control of connected and autonomous vehicles subject to input saturation	521-526
91	1570393250	Business Process Re-Engineering For Smart Manufacturing	527-532
92	1570393663	Eldercare Robotics Revolution- Explaining Robotics for Eldercare	533-538
93	1570393854	Leveraging Single Board Computer for Anomaly Detection in the Smart Grid	539-545
94	1570394088	A Novel Bandwidth Efficient Orthogonal Frequency Division Multiplexing Scheme	546-552
95	1570394359	Reevaluating the Effectiveness of Visual Cues for Website Security	553-559
96	1570394361	Security and Privacy Issues Affecting Cloud-Based IP Camera	560-567
97	1570394396	On Collision-free Reinforced Barriers for Multi Domain IoT with Heterogeneous UAVs	568-573
98	1570394421	Detection and Prevention of Crypto-Ransomware	574-580
99	1570394457	Smarter spaces, smarter campus	581-586
100	1570394464	Bit Error Rate (BER) Analysis of Discrete Fractional Fourier Transform (DFrFT) based OFDM Systems	587-589
101	1570394526	Simulation of Long Term Evolution (LTE) based Communication system with different protocols	590-593
102	1570394588	Smart Cooperative Firewalls	594-600
103	1570394598	Real Time Video Transceiver using SDR testbed with Directional Antennas	601-606
104	1570394599	Performance of Multi-Level Amplify-and-Forward Relays with Multihop Diversity	607-613
105	1570394616	Power Efficiency of Cooperative Broadcast in 1-D Dense Networks with Interference	614-618
106	1570394620	Analytical Analysis of QoS for Lossy Network Congestion Control	619-623
107	1570394629	Framework for Generating and Designing Spectrum Awareness Modules for Opportunistic Networking	624-629
108	1570394634	MalFire: Malware Firewall for Malicious Content Detection and Protection	630-635
109	1570394638	Novel MI-based (FracBot) Sensor Hardware Design for Monitoring Hydraulic Fractures and Oil Reservoirs	636-643
110	1570394646	Analyzing the Existing Noninvasive Hemoglobin	644-649

111	1570394667	Security Issues with Certificate Authorities	650-657
112	1570394696	A Few-shot Deep Learning Approach for Improved Intrusion Detection	658-664
113	1570394704	Data Mining Approaches to Identify Predictors of Frequent Malpractice Claims Against Dentists	665-670
114	1570394718	Consensus Protocols for Blockchain-based Data Provenance: Challenges and Opportunities	671-676
115	1570394720	Finger Printing on the web	677-679
116	1570394730	A Scalable and Secure Key Distribution Scheme for Group Signature based Authentication in VANET	680-685
117	1570394963	Implementing Directional Tx-Rx of High Modulation QAM Signaling with SDR Testbed	686-692
118	1570395136	Medication Adherence Monitoring Using Modern Technology	693-699
119	1570395189	A Smart Campus Internet of Things Framework	700-705
120	1570395492	Investigation of IGBT Behavior in DC systems With Advanced Circuit Breaker Technology	706-710
121	1570396365	Performance Comparison of Load Balancing Algorithms using Cloud Analyst in Cloud Computing	711-715
122	1570378946	Single-Phase Cascaded Multilevel Inverter Topology for Distributed DC Sources	716-721
123	1570381569	SPEProxy: Enforcing Fine Grained Security and Privacy Controls on Unmodified Mobile Devices	722-728
124	1570382341	Real Time Embedded System IPs Protection Using Chaotic Maps	729-732
125	1570382342	An Innovative Approach of Model order reduction using Ant Colony Optimization	733-736
126	1570382445	Study of a parallel Algorithm on Pipelined computation of the finite difference schemes on FPGA	737-741
127	1570389794	Deep CNN-LSTM with Combined Kernels from Multiple Branches for IMDb Review Sentiment Analysis	742-748
128	1570394967	Enabling Densely-Scalable Low-Power WSNs for Shipping and Industrial IoT	749-754
129	1570406560	Performance of Vertical Multi Junction Solar Cell for Long Distance Wireless Power Transfer Using High Intensity Laser Beam	755-761
130	1570409114	Issues And Challenges of Data Security In A Cloud Computing Environment	762-768
131	1570371788	Chirp Pulse Envelope Evaluation for SAR Image Formation	769-772
132	1570378372	User Concerns with Personal Routers Used as Public Wi-fi hotspots	773-778
133	1570384310	Automated Facial Expression Recognition App Development on Smart Phones using Cloud Computing	779-785

134	1570384728	Mobile Sensor-based Biometrics using Common Daily Activities	786-792
135	1570390106	A Survey on the Industrial Readiness for Internet of Things	793-798
136	1570394028	Capacity Augmentation in Energy-Efficient Vehicular Roadside Infrastructure	799-805
137	1570394040	An L1-Regularized Least-Squares Deblurring Algorithm with an Application to GPR Imaging	806-809
138	1570394385	Homegateway RFPON based Gigabit Transmission System for Cable Network	810-814
139	1570394400	Minimum Cost Security Measurements for Attack Tree Based Threat Models in Smart Grid	815-819
140	1570394420	KeyStroke Logs: Are Strong Passwords Enough?	820-826
141	1570394578	Deep Learning for Effective Detection of Excavated Soil Related to Illegal Tunnel Activities	827-833
142	1570394613	Vocoder Susceptibility to Baseband Trojans	834-838
143	1570394693	Handling Changes of Update Reviewers in Distributed Free and Open-Source Software Meta-Recommendations	839-845
144	1570394711	Automation of Traumatic Brain Injury Diagnosis Through an IoT-based Embedded Systems Framework	846-850
145	1570394850	Throughput Optimization in Cognitive Radio Using Demand Based Adaptive Genetic Algorithm	851-854
146	1570388770	An Efficient Hardware Implementation of Vector-based Odd-Even Merge Sorting	855-858