

2018 8th International Conference on Electronics Information and Emergency Communication (ICEIEC 2018)

**Beijing, China
15 – 17 June 2018**



**IEEE Catalog Number: CFP1888U-POD
ISBN: 978-1-5386-5775-1**

**Copyright © 2018 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:	CFP1888U-POD
ISBN (Print-On-Demand):	978-1-5386-5775-1
ISBN (Online):	978-1-5386-5774-4
ISSN:	2377-8431

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

Table of Contents

Session 1

001-E003	Automatic Switching Technique for Speech Enhancement in HF Communications <i>Ye Chen, Yongcheng Wang, Jiaguo Yang, Yuantao Gu</i>	1
002-E004	A New 16APSK Mapping Scheme for Doped BICM-ID Systems <i>Lei Hou, Can Zhang, Han Bao</i>	7
003-E023	Comparison Between Distributed Observer And Adaptive Distributed Observer <i>Mairaj Ali, Muwahida Liaquat</i>	12
004-F004	Aggressive Heuristic Search for Sub-Optimal Solution on Path Planning <i>Junjun Liu, Wenzheng Li</i>	16
005-E019	A Fast Generation Algorithm of Huffman Encode Table for FPGA Implement <i>Huangtao Wu, Rui Chen, Junhao Wu, Yihua Huang</i>	21
006-E063	Comparative Analysis of Hybrid Clustering Algorithm on Different Dataset <i>Hira Malik, Noor-U-Zaman Laghari, Din Muhammad Sangrasi, Zulfiqar Ali Dayo</i>	25
007-E050	Development of IT Helpdesk with Microservices <i>Ratthida Wongsakthaworn, Yachai Limpiyakorn</i>	31
008-E022	Evaluating the Impact of Mobility over κ - μ Generalized Fading Channels in Digital Communication <i>Ekkaphot Meesa-ard, Suwat Pattaramalai, M.D.C Madapatha</i>	35
009-E048	Random Projection Recurrent Neural Networks for Time Series Classification <i>Ye Ma, Moufa Hu, Qing Chang, Huanzhang Lu</i>	40
010-E015	Compact Dual Polarized MIMO Antenna for UWB Communication Applications <i>Zhenya Li, Xiaosong Zhu, Jianhua Zhang</i>	44

Session 2

011-F002	Greedy Permuting Method for Genetic Algorithm on Traveling Salesman Problem <i>Junjun Liu, Wenzheng Li</i>	47
012-E001	Infrared and Visible Image Fusion using Improved QPSO-PCNN Algorithm <i>Mingda Zhu, Chen Chen, Xiulong Wu</i>	52
013-E002	Analysis of Data Hiding with Multi-bit Image Steganography <i>Junfeng Qu, Yinglei Song, Yong Wei, Jia Song</i>	59
014-E005	Influence of Full-Duplex Self-Interference Channel Measurement on Self-Interference Cancellation Capacity <i>Long Luo, Shaoqian Li</i>	63
015-E006	A Distributed Register File Architecture Based on Dynamic Scheduling for VLIW Machine <i>Yang Guo, Donglin Wang, Zijun Liu, Hongyu Meng</i>	67
016-E007	Advanced Extensible Crossbar Protocol for Connecting Multi-Cores and Shared-Memory on-Chip	71

	<i>Hongyu Meng, Donglin Wang, Zijun Liu, Yang Guo</i>	
017-E008	Releasing The Requirement for Analog Cancellation in Wireless Full-Duplex Communications <i>Qiang Xu, Shihai Shao, Wensheng Pan, Youxi Tang</i>	75
018-E009	Joint Coding and Scheduling Optimization in Wireless D2D Networks <i>Cheng Zhan, Guo Yao, Fuyuan Xiao, Hong Lai</i>	79
019-E010	An Open-Source FaxOCR for Emergency Communication <i>Takashi Okumura, Sohgo Takeuchi, Kaizaburo Chubachi</i>	83
020-E012	A Mobile Localization Method for Wireless Sensor Network in Mixed LOS/NLOS Environments <i>Yan Wang, Jinquan Hang, Chen Li, Jia You, Shujia Chen, Long Cheng</i>	87
Session 3		
021-E013	An Improved Artificial Bee Colony (ABC) Algorithm with Advanced Search Ability <i>Yan Wang, Jia You, Jinquan Hang, Chen Li, Long Cheng</i>	91
022-E014	Design of Improved Vehicle Collision Warning System Based on V2V Communication <i>YuRong Liu, JinXu Guo</i>	95
023-E016	A Regular Expression Grouping Algorithm Based on Simulated Annealing Algorithm <i>Liangwei Cai, Zhiqiang Mao</i>	99
024-E017	Efficient Topology Design for Load Balancing in Time-Evolving Delay-Tolerant Networks <i>Dawei Yan, Cong Liu, Peng You, Shaowei Yong</i>	103
025-E018	L-Code: An Efficient Coding Scheme for Recovering Single Disk Failure <i>Wenbo Liu, Ning Zhou, Xinyan Gao</i>	108
026-E020	Research on Remote Sensing Image Mobile Service Technology for Earthquake Emergency Sites <i>Qingquan Tan, Qun Liu, Liguang Ma</i>	112
027-E021	Improved Variable Step-size LMS for Digital Predistortion in Wideband Power Amplifiers <i>Qidi You, Linhai Gu, Jiangchun Liu</i>	116
028-E024	An Intrusion Detection Model Based on Fuzzy C-means Algorithm <i>Liyu Duan, Youan Xiao</i>	120
029-E026	Satellite Network Architecture Design Based on SDN and ICN Technology <i>Zhiguo Liu, Jie Zhu, Chengsheng Pan, Guangyue Song</i>	124
030-E027	A Spectrum Allocation Algorithm Based on Maximum System Capacity in TVWS <i>Zhang NaiQian, Ruan XiaoShuang, Jin LiBiao</i>	132
Session 4		
031-E028	Improved Measurement Matrix and Reconstruction Algorithm for Compressed Sensing <i>Shufeng Li, Guangjing Cao, Shanshan Wei</i>	136
032-E029	ISDV-Hop Localization Algorithm With Increased Node Density In Wireless Sensor Networks <i>Mahnoor Balouch, Javed Ali Baloch, Adeel Abro, Raheel Noor, Kiran Manzoor</i>	140
033-E030	Hotspot-based Resource Sharing System for Mobile Ad hoc Networks <i>Bo Cui, Yuan Yang</i>	146
034-E034	Research on Power Flexible Load Regulation Technology Based on Demand Response <i>Yang Bin, Ye Xin, Li Bin, Shi Kun, Li Dezhi, Li Yiyun</i>	150

035-E032	Research on Information Exchange Model for Flexible Adjustment and Control of Large-scale Demand Response <i>Chen Zhenyu, Shi Kun, Li Dezhi, Chen Jingsheng, Lin Bin, Li Yiyun</i>	154
036-E035	An Adaptive Energy Consumption Optimization Method Based on Channel Correlation Information in Massive MIMO Systems <i>Feng Hu, Kaiyue Wang, Huiqing Huo, Libiao Jin</i>	158
037-E036	Data Prediction of ECG Based on Phase Space Reconstruction and Neural Network <i>ZhongGao Sun, QiaoLing Wang, QuanDe Xue, Qun Liu, QingQuan Tan</i>	162
038-E037	A New Parameterized Algorithm for Accurate Supervised Dimensionality Reduction <i>Yinglei Song, Jiaojiao Chen, Xin Liu, Liang Qi, Wei, Yuan, Zhen Su, Menghong Yu, Junfeng Qu</i>	166
039-E038	Power Allocation for Multi-Satellite System Integrated with Precoding and User Scheduling <i>Xin Zhang, Jihong Tong, Yong Ren</i>	170
040-E039	A Research of Vehicle Ad Hoc Network Incentive Mechanism <i>Xiaojuan Zhang, Xiangyu Bai, Qi Liu</i>	175
Session 5		
041-E040	Research of Routing Strategies Based on Network Encoding under Vehicle Networking <i>Hua Zhang, Bo Cui, Xiangyu Bai</i>	180
042-E041	A Secure Satellite Remote Education System for Agricultural and Pastoral Areas Based on IPv6 <i>Qi Liu, Xiangyu Bai, Xiaopeng Luo</i>	185
043-E043	Identification and Parameter Estimation of Underwater LFM Signals under α -Stable Distribution Noise <i>Qingsong Meng, Gaoping Shao, Bin Wang</i>	190
044-E044	Bone Age Assessment Method based on Deep Convolutional Neural Network <i>Zengya Bian, Runtong Zhang</i>	194
045-E046	A Clustering Algorithm of Four Character Medicine Effect Phrases in TCM patents <i>Na Deng, Song Lin, Caiquan Xiong, Desheng Li</i>	198
046-E047	Theme Mining and Evolution Analysis of Negative Comments on App Software <i>Anwen Shi, Xinshen Ke</i>	202
047-E049	Evaluating Radar Performance under Complex Electromagnetic Environment Using Supervised Machine Learning Methods: A Case Study <i>Yujian Pan, Jingke Zhang, Guo Qing Luo, Bo Yuan</i>	206
048-E052	Additive Scrambling PAPR Reduction Scheme in BPSK-OFDM Systems <i>Lingyin Wang</i>	211
049-E053	A Method for Similarity of Assembly Based on Spatial Position of Parts <i>Pang Jiazhen, Ji Baoning, Wang Jianhan</i>	215
050-E056	Analysis of Packet Loss Characteristics in VANETs <i>Yutong Liu, Kai Shi, Guangping Xu, Sheng Lin, Shuangxi Li</i>	219
Session 6		
051-E057	A Radio Tomographic Imaging Method using Channel State Information and Image Fusion <i>Cheng Sun, Fei Gao, Heng Liu, Shengxin Xu, Jianping An</i>	223

052-E058	Information Management and Target Searching in Massive Urban Video Based on Video-GIS <i>Wenqun Xiu, Zhichao Gao, Wei Liang, Wenguang Qi, Xin Peng</i>	228
053-E059	Reconfiguration of Adaptors Based on Trace Compliance in Cloud Service Composition <i>Dajuan Fan, Danhua Wang, Lei Pan, Fangxiong Xiao</i>	233
054-E060	FlowWatcher: Adaptive Flow Counting for Source Routing over Protocol Independent SDN Networks <i>Min Zhao, Mingzheng Li, Lei Mei, Ye Tian</i>	237
055-E061	Enhanced Differential Evolution by Dynamic Selection Framework of Mutation Operator <i>Xia Dahai, Lin Song, Gu Wei, Xiong Caiquan</i>	243
056-E062	Enterprise WiFi Hotspot Authentication with Hybrid Encryption on NFC-Enabled Smartphones <i>Wiphop Pomak, Yachai Limpiyakorn</i>	247
057-E064	Features Extraction and Recognition of Weak Ship-radiated Noise under Impulse Noise Environment <i>Yao Qi, Wang Bin</i>	251
058-E065	A Survey of Traffic Classification Validation and Ground Truth Collection <i>Jinghua Yan</i>	255
059-F001	Automatic Generation Control using Fuzzy Genetic Algorithm Considering Wind Fluctuations <i>Qiyu Chen, Guoqing He, Chen Lv, Xiuyuan Yang, Yuhang Yang</i>	260
060-F003	An Novel Parameter Tuning Alogrithm for MapReduce Model <i>Jun Liu, Rong Liu, Nanjian Li, Bin Zhu, Linjiao Jiang, Renyu Huang</i>	266
Session 7		
061-F015	Research on Collaborative Defense Model of Power Grid Security <i>Xiaojuan Guan, Yuanyuan Ma, Zhipeng Shao, Bo Zhang</i>	270
062-F030	Research on Vehicle Detection Technology Based on SIFT Feature <i>Tu Yawen, Guo Jinxu</i>	274