

2015 International Conference on Wireless Communications & Signal Processing (WCSP 2015)

**Nanjing, China
15-17 October 2015**

Pages 1-952



**IEEE Catalog Number: CFP1570H-POD
ISBN: 978-1-4673-7688-4**

TABLE OF CONTENTS

JOINT DESIGN OF QC-LDPC CODES FOR CASCADE-BASED MULTISOURCE CODED COOPERATION	1
<i>Shunwai Zhang ; Rongfang Song ; Fengfan Yang</i>	
SPATIAL CHARACTERIZATION OF INDOOR MIMO RADIO CHANNEL AT BOTH 6.05GHZ AND 2.45GHZ BASED ON MEASUREMENT	5
<i>Liujun Hu ; Jiliang Zhang ; Yang Wang ; Liqin Ding ; Shijun Chen ; Lujuan Ma</i>	
QAM GOLAY COMPLEMENTARY SEQUENCES FROM BINARY STANDARD GENERALIZED BOOLEAN FUNCTIONS.....	9
<i>Fanxin Zeng ; Zhenyu Zhang</i>	
RELAY BEAMFORMING FOR MULTI-PAIR TWO-WAY MIMO RELAY SYSTEMS WITH MAX-MIN FAIRNESS	15
<i>Xiuling Sun ; Wen-Qin Wang ; Hui Chen ; Huaizong Shao</i>	
ENERGY-EFFICIENT SECRECY PRECODING FOR GENERAL MIMOME WIRETAP CHANNELS.....	19
<i>Bing Fang ; Zuping Qian ; Wei Zhong ; Wei Shao</i>	
A PERFORMANCE COMPARISON BETWEEN CACS AND SCACS BASED TOPOLOGY-TRANSPARENT SCHEDULING	24
<i>Yijin Zhang ; Jun Wei ; Ming Zhang ; Aijie Zou ; Feng Shu</i>	
RESOURCE ALLOCATION FOR PHYSICAL LAYER SECURITY IN COOPERATIVE OFDM NETWORKS	29
<i>Chunxiao Cai ; Yueming Cai ; Ruihua Wang ; Weiwei Yang ; Wendong Yang</i>	
MULTIHOP RELAY TRANSMISSION IN INTERPLANETARY INTERNET BASED ON FOUNTAIN CODES	34
<i>Liang Gou ; Gengxin Zhang ; Zhen Pang ; Yuan Zhang</i>	
CELL LOAD COUPLING WITH POWER CONTROL FOR LTE NETWORK PLANNING.....	40
<i>Zhao-Hui Yang ; Yi-Jin Pan ; Ming Chen ; Hao Xu ; Jian-Feng Shi</i>	
PERFORMANCE ANALYSIS FOR MISO WIRELESS COMMUNICATION SYSTEMS USING STOCHASTIC NETWORK CALCULUS.....	45
<i>Pengxiang Li ; Yuehong Gao ; Zhidu Li ; Xin Zhang ; Dacheng Yang</i>	
A NEW STEGANALYSIS PARADIGM BASED ON IMAGE RETRIEVAL OF SIMILAR IMAGE-INHERENT STATISTICAL PROPERTIES AND OUTLIER DETECTION.....	50
<i>Yu Dong ; Tao Zhang ; Xiaodan Hou ; Chen Xu</i>	
A NOVEL APPROACH TO PHOTONIC GENERATION OF UWB SIGNALS WITH A RECONFIGURABLE SPECTRAL NOTCH-BAND	55
<i>Peng Xiang ; Dalei Chen ; Zhu Huatao ; Haisong Jiao ; Zhang Baofu</i>	
RECIPROCITY OF MUTUAL COUPLING FOR TDD MASSIVE MIMO SYSTEMS.....	60
<i>Hao Wei ; Dongming Wang ; Xiaohu You</i>	
AN HEURISTIC WSPRT FUSION ALGORITHM AGAINST HIGH PROPORTION OF MALICIOUS USERS	65
<i>Zhan Gao ; Xinquan Huang ; Manxi Wang</i>	
A METHOD OF SATELLITE NETWORK FAULT SYNTHETIC DIAGNOSIS BASED ON C4.5 ALGORITHM AND EXPERT KNOWLEDGE DATABASE.....	70
<i>Yusheng Lin ; Shijie Ding ; Yuqing Wang ; Jizhao Geng</i>	
POWER SPECTRUM CORRELATION BASED SNR ESTIMATION FOR COGNITIVE RADIOS	75
<i>Kun Wu ; Guangliang Ren</i>	
TIKHONOV SUM APPROACH FOR JOINT CARRIER PHASE ESTIMATION AND DECODING IN FREQUENCY-HOPPING COMMUNICATIONS	80
<i>Yue Yin ; Sheng Wu ; Linling Kuang ; Ziyao Ni</i>	
SPARSITY-INFORMATION-AIDED LEAST MEAN SQUARES METHOD FOR SPARSE CHANNEL ESTIMATION	85
<i>Wenying Lei ; Yansong Meng ; Yingwei Wu ; Su Zhe ; Xiaoliang Wang</i>	
THE FRACTIONAL-STEP SPECTRUM SENSING ALGORITHM BASED ON ENERGY AND COVARIANCE DETECTION	90
<i>Min Jia ; Xue Wang ; Fang Ben ; Qing Guo ; Xuemai Gu</i>	
MULTI-SCALE INFORMATION FIDELITY APPROACH FOR FULL REFERENCE IMAGE QUALITY ASSESSMENT.....	95
<i>Mingkun Feng ; Shengmei Zhao ; Jingwu Cui</i>	
SECRECY PERFORMANCE ANALYSIS OF SLNR-BASED BEAMFORMING SCHEME IN MISOME WIRETAP CHANNELS.....	100
<i>Yanqun Tang ; Caiyao Sheng ; Wei Liu ; Yunpeng Hu ; Xiaoyi Zhang</i>	
A STUDY OF RELATIVE MOTION POINT TRAJECTORIES FOR ACTION RECOGNITION	105
<i>Tongchi Zhou ; Nijun Li ; Xu Cheng ; Qinjun Xu ; Lin Zhou ; Zhenyang Wu</i>	
LIP-READING BASED ON FUZZY LANGUAGE MODEL	110
<i>Zhenjun Yue ; Chuanzhen Rong ; Yuan Wang ; Yu Yang</i>	
3D IMAGING USING NARROWBAND MIMO RADAR AND ISAR TECHNIQUE	115
<i>Xiaowei Hu ; Ningning Tong ; Yongshun Zhang ; Yuchen Wang</i>	
JOINT 2-D DOA ESTIMATION AND MUTUAL COUPLING CALIBRATION FOR UNIFORM RECTANGULAR ARRAYS	120
<i>Chen Zhang ; Minjian Zhao ; Yunlong Cai</i>	

ENERGY AND SPECTRAL EFFICIENT MOBILE RELAY DEPLOYMENT IN RELAY-AIDED CELLULAR NETWORKS	125
<i>Wangfeng Chen ; Hongbin Chen ; Feng Zhao</i>	
ON IMPLEMENTING SPHERE DECODING ALGORITHMS IN LTE-A UPLINK WITH THE PRESENCE OF CFO	131
<i>Yuan Zhang ; Hao Shen ; Kun Zhao ; Bin Xia</i>	
LARGE-CAPACITY LONG-DISTANCE WIRELESS MM-WAVE SIGNAL DELIVERY AT W-BAND	136
<i>Xinying Li ; Jiangnan Xiao ; Jianjun Yu</i>	
ENHANCED SECURE MULTICAST: JOINT POWER ALLOCATION AND BEAMFORMING DESIGN BASED ON USER CLUSTERING	142
<i>Shengyu Li ; Wenjun Xu ; Xuemei Zhou ; Jiaru Lin</i>	
AREA SPECTRAL EFFICIENCY AND AREA ENERGY EFFICIENCY ANALYSIS IN MASSIVE MIMO SYSTEMS	148
<i>Yuanxue Xin ; Dongming Wang ; Xiaohu You</i>	
TENSOR-BASED SEMI-BLIND CHANNEL ESTIMATION FOR THREE-HOP MIMO RELAY SYSTEMS	153
<i>Yue Liu ; Shuangzhi Li ; Xiaomin Mu ; Jiankang Zhang</i>	
(INVITED) POPULARITY-BASED CONTENT REPLICATION SCHEME FOR WIRELESS MESH NETWORK	158
<i>Chenkai Yang ; Liusheng Huang ; Xinglong Wang ; Hongli Xu ; Bing Leng</i>	
ITERATIVE CARRIER RECOVERY IN AN LDPC CODED QPSK SYSTEM AT LOW SNRS	163
<i>Jianrong Bao ; Xiqi Gao ; Chao Liu ; Bin Jiang</i>	
A HANKEL-BASED SINGULAR VECTOR SOURCE ENUMERATION FOR LOW SIGNAL-TO-NOISE RATIO	168
<i>Pan Jiang ; Kainan Yan ; Hairong Zhang ; Guijin Yao ; Ling Li</i>	
A NOVEL COVERAGE ALGORITHM BASED ON 3D-VORONOI CELL FOR UNDERWATER WIRELESS SENSOR NETWORKS	172
<i>Zhongsu Wang ; Bang Wang ; Zehui Xiong</i>	
A PPM-BASED FOUR-DIMENSIONAL MODULATION SCHEME FOR VISIBLE LIGHT COMMUNICATIONS	177
<i>Lei Kong ; Wei Xu ; Hua Zhang ; Chumming Zhao ; Xiaohu You</i>	
ANIMAL SOUND RECOGNITION BASED ON DOUBLE FEATURE OF SPECTROGRAM IN REAL ENVIRONMENT	182
<i>Ying Li ; Zhibin Wu</i>	
SPEECH RECONSTRUCTION VIA SPARSE REPRESENTATION USING HARMONIC REGULARIZATION	187
<i>Yibin Tang ; Ying Chen ; Ning Xu ; Changping Zhu ; Lin Zhou</i>	
AGENT-BASED DYNAMIC ROUTING IN THE PACKET-SWITCHED LEO SATELLITE NETWORKS	191
<i>Zhaofeng Wu ; Guyu Hu ; Fenglin Jin ; Bo Jiang ; Yinjin Fu</i>	
ENERGY-EFFICIENT JOINT BS-RS SLEEP SCHEDULING BASED ON CELLULAR AUTOMATA IN RELAY-AIDED CELLULAR NETWORKS	197
<i>Qiong Zhang ; Hongbin Chen ; Feng Zhao</i>	
DYNAMIC ANALYSIS OF COUPLED BINARY CHECK-BOARD — STRIP CELLULAR NEURAL NETWORKS	203
<i>Mian Wang ; Lequan Min ; Min Li</i>	
COOPERATIVE RELAY ASSISTED LOAD BALANCING SCHEME BASED ON STACKELBERG GAME FOR HYBRID GEO-LEO SATELLITE NETWORK	209
<i>Linyan Jiang ; Gaofeng Cui ; Shuaijun Liu ; Weidong Wang ; Dantong Liu ; Yue Chen</i>	
REDUCED-COMPLEXITY PARTIAL INTERFERENCE CANCELLATION RECEIVER IN SPATIAL MODULATION AIDED ZERO-PADDED SINGLE CARRIER TRANSMISSION	214
<i>Fangchao Yao ; Jianping Zheng ; Jiajun Chen</i>	
SESS: A SECURITY-ENHANCED SECRET STORAGE SCHEME FOR PASSWORD MANAGERS	219
<i>Hao Fang ; Hu Aiqun ; Le Shi ; Tao Li</i>	
RELATIVE DEPTH ESTIMATION WITH AN UNCALIBRATED CAMERA FOR IMAGE REFOCUS	224
<i>Qiuyan Tao ; Jianing Li ; Lianghao Wang ; Ming Zhang</i>	
DESIGN OF GLOBAL EMERGENCY COMMUNICATION SYSTEM BASED ON GEOSYNCHRONOUS TDRSS	229
<i>Fan Dandan ; Li Benjin ; Fei Li Gang ; Gao Shenghua ; Jin Xiaohan</i>	
ENERGY-EFFICIENT TRANSMISSIONS IN INTEGRATED HAP/SATELLITE NETWORKS FOR EMERGENCY COMMUNICATIONS	233
<i>Feihong Dong ; Quan Liu ; Wei Zhang ; Lei Guo ; Xionglin Zhou</i>	
SECURE TRANSMISSION IN MULTI-ANTENNA HYBRID SATELLITE-TERRESTRIAL RELAY NETWORKS IN THE PRESENCE OF EAVESDROPPER	238
<i>Kang An ; Min Lin ; Tao Liang ; Jian Ouyang ; Can Yuan ; Yinbin Li</i>	
PATCH-BASED SCALE CALCULATION FOR VISUAL TRACKING	243
<i>Yulong Xu ; Yafei Zhang ; Jiabao Wang ; Yang Li ; Hang Li</i>	
QOS-AWARE DYNAMIC SPECTRUM RESOURCE ALLOCATION SCHEME IN C-RAN BASED DENSE FEMTOCELL NETWORKS	248
<i>Wei Jiang ; Hong, P. ; Kaiping Xue ; Qiang Fan ; Tingting Hu</i>	
EQUEUE-MAC: ENHANCED TRAFFIC ADAPTIVE HYBRID MAC PROTOCOL WITH IEEE 802.15.4E FEATURES FOR INDUSTRIAL APPLICATIONS	254
<i>Dongyu Cao ; Shuguo Zhuo ; Liantao Wu ; Zhi Wang</i>	

A REVERSE AUCTION MECHANISM FOR HYBRID ACCESS FEMTOCELL NETWORKS	260
<i>Menghan Wei ; Li Li ; Shuang Qin ; Zhaorong Zhou</i>	
SMALL-CELL PLANNING BASED ON UPLINK INTERFERENCE AND TRAFFIC IN TWO-TIER CELLULAR SYSTEM	265
<i>Yue Li ; Kai Sun ; Lin Cai</i>	
A RSS/AOA BASED INDOOR POSITIONING SYSTEM WITH A SINGLE LED LAMP	271
<i>Yinan Hou ; Yuankai Xue ; Cao Chen ; Shilin Xiao</i>	
DEEP CONVOLUTIONAL ARCHITECTURE FOR NATURAL IMAGE DENOISING	275
<i>Xuejiao Wang ; Qiuyan Tao ; Lianghao Wang ; Dongxiao Li ; Ming Zhang</i>	
GENERALIZED ITERATIVE WATER-FILLING FOR MIMO MAC WITH MIXED CONSTRAINTS (INVITED)	279
<i>He, P. ; Lian Zhao</i>	
A VEHICLE COOPERATIVE POSITIONING ENHANCEMENT FOR GNSS-DARK AREAS BASED ON GRW MODEL	284
<i>Hongyang Du ; Wenfeng Li ; Naitong Zhang ; Kanglian Zhao ; Jian Wang ; Zhenhong Shao</i>	
ACTIVE TRACKING USING COLOR SILHOUETTES FOR INDOOR SURVEILLANCE	290
<i>Guijin Tang ; Xiaohua Liu ; Changhong Chen ; Lei Wang ; Ziguan Cui ; Zongliang Gan ; Feng Liu ; Suhuai Luo</i>	
THE PERFORMANCE OF SC-FDMA SYSTEMS WITH ROTATED CONSTELLATION IN THE PRESENCE OF PHASE NOISE AND CHANNEL ESTIMATION ERROR	295
<i>Ng, B.K.</i>	
AN IMPROVED UNAMBIGUOUS ACQUISITION SCHEME FOR BOC(N,N) SIGNALS	300
<i>Ping Li ; Fei Gao ; Qian Li</i>	
ANALYSIS OF ENERGY HARVESTING WIRELESS NETWORKS: COVERAGE, LOCAL DELAY AND ENERGY EFFICIENCY	306
<i>Guo, A. ; Zhong, Y. ; Yin, H. ; Wang, W.</i>	
LOAD-AWARE DYNAMIC SPECTRUM ACCESS IN ULTRA-DENSE SMALL CELL NETWORKS	311
<i>Junhong Chen ; Zhan Gao ; Qian Zhao</i>	
PERFORMANCE ANALYSIS OF MIMO-COFDM UNDER RAYLEIGH FADING CHANNEL	316
<i>Alam, M.M. ; Chadni, F.H. ; Papon, S.A.</i>	
DPSO-BASED CLUSTERING ROUTING ALGORITHM FOR ENERGY HARVESTING WIRELESS SENSOR NETWORKS	321
<i>Junling Li ; Danpu Liu</i>	
MULTIPLE FEATURE SIMILARITY BASED FOR IMAGE RETRIEVAL	326
<i>Gengning Zhang ; Yafei Zhang ; Jiabao Wang ; Yang Li ; Hang Li ; Zhuang Miao</i>	
PERFORMANCE COMPARISON OF SUBHARMONIC AND ZERNIKE POLYNOMIALS METHOD FOR COMPENSATION OF LOW-FREQUENCY COMPONENTS IN FFT-BASED VON KARMAN PHASE SCREEN	330
<i>Ling Zhu ; Yan Li ; Dong Hao Zheng ; Jian Wu</i>	
HOMOTOPY RECONSTRUCTION FOR COMPRESSIVE SENSING BASED COOPERATIVE TRANSMISSIONS IN COGNITIVE RADIO NETWORK	335
<i>Xiaorong Xu ; Haiyan Cao ; Qian Guo</i>	
RESOURCE ALLOCATION FOR SCALABLE VIDEO STREAMING IN HIGHWAY VANET	340
<i>Yang Xu ; Hao Zhou ; Xiaoyan Wang ; Baohua Zhao</i>	
TSLA: AN ENERGY EFFICIENT TIME SYNCHRONIZATION AND LOCALIZATION ALGORITHM FOR UNDERWATER ACOUSTIC SENSOR NETWORKS	345
<i>Zhongze Tian ; Cailian Chen ; Youjie Xia ; Xinpeng Guan</i>	
SECURITY OUTAGE ON TRANSMIT ANTENNA SELECTION/MAXIMAL RATIO COMBINING IN MIMO COGNITIVE RADIO NETWORKS	351
<i>Hui Zhao ; Youyu Tan ; Gaofeng Pan ; Yunfei Chen</i>	
DOWNLINK POWER ALLOCATION IN DISTRIBUTED SATELLITE SYSTEM BASED ON DYNAMIC MULTI-OBJECTIVE OPTIMIZATION	357
<i>Xu-dong Zhong ; Yuan-zhi He ; Zhou-quan Du</i>	
LFM HYBRID-CODING WAVEFORM DESIGN OF MIMO SAR BASED ON NSGA-II	362
<i>Feng Liu ; Shanxiang Mu ; Wanghan Lv ; Wenliang Li ; Ting Ge ; Li Li</i>	
BUFFER-AIDED AND WEIGHT-BASED NON-ORTHOGONAL NETWORK CODING FOR WIRELESS BROADCASTING	368
<i>Teng Niu ; Dongmei Zhang ; Yu Jiang ; Kui Xu</i>	
A ROUTING ALGORITHM BASED ON NODE SELFISHNESS AND BUFFER MANAGEMENT IN DELAY TOLERANT NETWORKS	374
<i>Xiaoqiong Xu ; Zhaorong Zhou ; Liu Yang ; Li Li</i>	
A ROUTING STRATEGY WITH SMALL WORLD FEATURE AND NODE AUTHORITY IN ENERGY CONSTRAINED DELAY TOLERANT NETWORKS	379
<i>Xiaoqiong Xu ; Zhaorong Zhou ; Liu Yang ; Xiaoxia Ma</i>	
THE PARAMETER ESTIMATION OF TRANSMIT DIVERSITY MIMO RADAR WITH ITERATIVELY ADAPTIVE PULSE COMPRESSION AND DOPPLER COMPENSATION	384
<i>Haiqing Wang ; Xiaohua Zhu</i>	
SPARSE CHANNEL ESTIMATION BASED ON A P-NORM-LIKE CONSTRAINED LEAST MEAN FOURTH ALGORITHM	389
<i>Yingsong Li ; Yanyan Wang ; Tao Jiang</i>	

A SINGLE-ANCHOR CALIBRATION INDOOR POSITIONING SYSTEM USING HETEROGENEOUS SENSORS	393
<i>Yueyue Zhang ; Yaping Zhu ; Weiwei Xia ; Lianfeng Shen</i>	
4 GBPS DIGITAL COHERENT FREE SPACE LASER COMMUNICATION SYSTEM BASED ON MODULATING RETRO-REFLECTOR	398
<i>Peng Zhang ; Xiaoyan Li ; Tianshu Wang ; Zonghui Tao</i>	
SPECTRUM SENSING FOR COGNITIVE RADIOS IN SPACE-TIME DOUBLY SELECTIVE FADING CHANNELS	402
<i>Bin Li ; Jia Hou ; Chenglin Zhao</i>	
DIM: A NOVEL DECENTRALIZED INTERFERENCE MITIGATION SCHEME IN WBAN	408
<i>Bin Yuan ; Jing Liu ; Wenlong Liu ; Shuqiang Zheng</i>	
PILOT CONTAMINATION REDUCTION BASED ON MSE PERFORMANCE OF CHANNEL ESTIMATION	413
<i>Hairong Wang ; Lihua Yang ; Hongbo Zhu ; Youhua Fu</i>	
A NOVEL SATELLITE SELECTING ALGORITHM FOR BEIDOU NAVIGATION SATELLITE SYSTEM	418
<i>Wen Li ; Lidong Zhu</i>	
MEASUREMENT AND STATISTICAL ANALYSIS OF 1.89GHZ RADIO PROPAGATION IN A REALISTIC MOUNTAIN TUNNEL	422
<i>Yulin Jia ; Ming Zhao ; Wuyang Zhou ; Dong Peng</i>	
A QOE-ORIENTATED BASE STATION SLEEPING STRATEGY FOR MULTI-SERVICES IN CELLULAR NETWORKS	427
<i>Yuan Yuan ; Ping Gong</i>	
A DUAL-BAND BANDPASS FILTER CONSTRUCTED BY USING T JUNCTIONS I/O STRUCTURE	432
<i>Zhou, Y.X. ; Qu, D.X. ; Zhong, X.J. ; Li, K. ; Ye, J.D.</i>	
AUTOMATIC DIGITAL MODULATION CLASSIFICATION FOR ORS SATELLITE RELAY COMMUNICATION	435
<i>Xinli Xiong ; Jing Feng ; Lei Jiang</i>	
DYNAMIC PRICING OVER MULTIPLE ROUNDS OF SPECTRUM LEASING FOR DYNAMIC SPECTRUM ACCESS WITH CONTINUOUS SPECTRUM DEMAND	440
<i>Rongfei Fan ; Wen Chen ; Yu Zheng ; Jianping An</i>	
NOVEL ROUTING ALGORITHMS IN SPACE INFORMATION NETWORKS BASED ON TIMELINESS-AWARE DATA MINING AND TIME-SPACE GRAPH	446
<i>Weigang Hou ; Boyi Xian ; Lei Guo ; Weijing Qi ; Honglin Zhang</i>	
JOINT CHANNEL RESPONSE, PHASE NOISE ESTIMATION AND DECODING IN TIME-SELECTIVE FLAT RAYLEIGH FADING CHANNELS	451
<i>Qiaolin Shi ; Desheng Shi ; Guibo Wang ; Nan Wu ; Hua Wang</i>	
A MODIFIED DISTRIBUTED TARGET LOCALIZATION SCHEME IN THE PRESENCE OF BYZANTINE ATTACK	456
<i>Qiliang Yu ; Huifang Chen ; Lei Xie</i>	
USER PILOT SCHEDULING IN MASSIVE MIMO SYSTEMS	461
<i>Sisi Yue ; Ju Liu ; Chao Zhai ; Qing Wang</i>	
PRIORITY-AWARE SCHEDULING FOR COEXISTING WIRELESS BODY AREA NETWORKS (INVITED PAPER)	466
<i>Shiwei Huang ; Jun Cai</i>	
OUTAGE-OPTIMAL RELAY SELECTION FOR ENERGY-HARVESTING RELAYS BASED ON POWER SPLITTING	471
<i>Kuang-Hao Liu</i>	
LOW-COMPLEXITY SOFT-OUTPUT DETECTORS FOR LDPC CODED SPATIAL MODULATION SYSTEMS	477
<i>Cong Li ; Yunpeng Cheng ; Yuming Zhang ; Yuzhen Huang</i>	
ADAPTIVE SPATIAL MODULATION WITH OPTIMIZED SWITCHING THRESHOLDS FOR MIMO SYSTEMS	483
<i>Sainan Qiu ; Xiangbin Yu ; Yang Li ; Ying Wang ; Cheng Wang</i>	
SPECTRAL EFFICIENCY GUARANTEED SUSTAINABLE ROUTING FOR ENERGY RENEWABLE WIRELESS MESH NETWORKS	488
<i>Lei Zhou ; Guixia Kang ; Ningbo Zhang ; Jianming Cheng</i>	
ENERGY-EFFICIENT POWER ALLOCATION OVER MULTIBEAM SATELLITE DOWNLINKS WITH IMPERFECT CSI	493
<i>Ting Qi ; Youzheng Wang</i>	
PATH PLANNING IN SENSOR LOCALIZATION WITH MOBILE ANCHORS: SURVEY AND CHALLENGES	498
<i>Liang Yue ; Guoru Ding ; Ze Zheng</i>	
SVM-BASED QOE ESTIMATION MODEL FOR VIDEO STREAMING SERVICE OVER WIRELESS NETWORKS	504
<i>Liyan Qian ; Huifang Chen ; Lei Xie</i>	
GENERALIZED WATER-FILLING FOR SUM POWER MINIMIZATION WITH PEAK POWER CONSTRAINTS	510
<i>He, P. ; Lian Zhao</i>	
MULTIPATH MITIGATING TECHNIQUE FOR BOC(KN,N) SIGNAL IN GNSS	515
<i>Zhe Liu ; Bo Xu ; Xiaomei Tang ; Feixue Wang</i>	

COOPERATIVE JAMMER POWER ALLOCATION — A NASH BARGAINING SOLUTION METHOD	519
<i>Bowen Duan ; Yueming Cai ; Jianchao Zheng ; Wendong Yang</i>	
A NOVEL METHOD FOR ESTIMATING SOURCE NUMBER OF FETAL ECG	525
<i>Beihai Tan ; Qiuming Peng ; Jinrong Lin ; Ming Li</i>	
ALGORITHM TO REDUCE IMPACT OF LTE-A CSI-RS ON LTE LEGACY UE IN COMP SCENARIO	531
<i>Xiaofei Zhao ; Xinyu Gu ; Yi Gong ; Lin Zhang ; Wenyu Li</i>	
A ROUTING POLICY BASED ON TIME-VARYING GRAPH FOR PREDICTABLE DELAY TOLERANT NETWORKS	536
<i>Liu Lei ; Hongyan Li</i>	
OPTIMAL RESOURCE ALLOCATION FOR SMART-GRID POWERED MIMO BROADCAST CHANNELS	542
<i>Shuyan Hu ; Xin Wang ; Yu Zhang ; Giannakis, G.B.</i>	
ENERGY EFFICIENT RESOURCE ALLOCATION FOR MULTIPLE PRIMARY AND SECONDARY USERS IN COGNITIVE RADIO NETWORKS WITH LIMITED PRIMARY USERS' COOPERATION	547
<i>Qun Li ; Ding Xu</i>	
A NOVEL DISTRIBUTED JOINT TIME-FREQUENCY DOMAIN CARRIER SYNCHRONIZATION ALGORITHM	552
<i>Jinhua Sun ; Xuemin Duan ; Zhongyang Yu</i>	
RELAY PRECODING STRATEGY SELECTION IN COGNITIVE MIMO RELAY NETWORKS WITH LIMITED FEEDBACK	557
<i>Wei Zhong ; Zuping Qian</i>	
JOINT PHASE AND TIMING RECOVERY FOR SOQPSK BASED ON PHASE TRAJECTORY	563
<i>Qifeng Wang ; Benxiang Huang ; Zhengguang Xu</i>	
INTER-OPERATOR RESOURCE SHARING BASED ON NETWORK VIRTUALIZATION	568
<i>Xia Ting ; Pan Zhiwen ; Liu Nan ; You Xiaohu</i>	
TRANSCEIVER DESIGN FOR FAST-CONVOLUTION MULTICARRIER SYSTEMS IN MULTIPATH FADING CHANNELS	574
<i>Jincheng Zhao ; Wenjin Wang ; Xiqi Gao</i>	
PHASE NOISE MITIGATION FOR MILLIMETER-WAVE SC-FDE MIMO SYSTEMS	579
<i>Yu Sun ; Shiwen He ; Yu Wang ; Haiming Wang ; Yongming Huang ; Luxi Yang</i>	
RESEARCH ON WEAK NAVIGATION SIGNAL ACQUISITION TECHNIQUE VIA FREQUENCY STABILITY TRANSFER	584
<i>Kaixiang Tong ; Guangxia Li ; Jing Lv ; Gengxin Zhang ; Xiaoran Guo ; Ruibo Chen</i>	
ROBUST VIDEO CODING BY EXPLOITING RESIDUAL SOURCE REDUNDANCY	589
<i>Lulu Sun ; Shaoshuai Gao</i>	
OUTAGE PROBABILITY OF TWO-WAY FULL-DUPLEX AMPLIFY-FORWARD RELAY SYSTEMS WITH ASYMMETRIC TRAFFIC REQUIREMENTS	594
<i>Yafei Wang ; Qianmin Jiang ; Zhiyong Chen ; Bin Xia</i>	
DISTRIBUTED DATE STORAGE BASED ON FOUNTAIN CODES FOR SPACE INFORMATION NETWORK	599
<i>Bo Kong ; Zhidong Xie ; Wei Zhang ; Gengxin Zhang ; Lei Cheng</i>	
ENABLING SCMA LONG CODEWORDS WITH A PARALLEL SCMA CODING SCHEME	605
<i>Yuxi Han ; Sihai Zhang ; Wuyang Zhou ; Qing Ling</i>	
ROBUSTIFYING POSITION AND VELOCITY REFERENCES FOR COMMUNICATION SATELLITES BY SHORT-ARC FILTERING	611
<i>Chen Xi ; Wang Menglu ; Gao Wenyun</i>	
EFFECT OF POLARIZATION ON MULTIPLE ANTENNAS SYSTEM	615
<i>Cuiwei Xue ; Qiuming Zhu ; Xiaomin Chen ; Xinglin Liu ; Zhizhong Liao</i>	
ROBUST SECURITY-AWARE BEAMFORMING DESIGN FOR COGNITIVE RADIO NETWORKS	619
<i>Shidang Li ; Chunguo Li ; Yongming Huang ; Yi Wang ; Yan Lin ; Luxi Yang</i>	
LARGE-SCALE ONLINE SEQUENTIAL BEHAVIOR ANALYSIS WITH LATENT GRAPHICAL MODEL	624
<i>Ge Chen ; Songjun Ma ; Weijie Wu ; Xinbing Wang</i>	
NETWORK LOCALIZATION AND NAVIGATION USING CUBATURE BELIEF PROPAGATION	630
<i>Wenyun Gao ; Xi Chen ; Menglu Wang ; Daichen Zhang</i>	
A BYZANTINE ATTACK DEFENDER FOR CENSORING-ENABLED COGNITIVE RADIO NETWORKS	635
<i>Jun Du ; Xiang Wen ; Ligang Shang ; Shan Zou ; Bangning Zhang ; Daoxing Guo ; Yihe Song</i>	
THE ERROR ESTIMATION OF X-RAY PULSAR NAVIGATION IN CIRCULAR ORBIT	641
<i>Hao Liang ; Yafeng Zhan</i>	
HIGH EFFICIENT POWER LOADING FOR DIGITAL CHANNELIZED SATCOM SYSTEMS	645
<i>Xiang Chen ; Jian Yan</i>	
A DYNAMIC THRESHOLD STRATEGY AGAINST SSDF ATTACK FOR COOPERATIVE SPECTRUM SENSING IN COGNITIVE RADIO NETWORKS	651
<i>Liangliang Wang ; Lin Zhang ; Xiang Chen</i>	
EFFICIENT DISTRIBUTED STORAGE BASED ON LT CODES IN WIRELESS SENSOR NETWORKS	656
<i>Bo Kong ; Gengxin Zhang ; Feihong Dong ; Lei Cheng ; Xionglin Zhou</i>	
DIFFERENTIAL PRIVACY AND DISTRIBUTED ONLINE LEARNING FOR WIRELESS BIG DATA	661
<i>Chencheng Li ; Pan Zhou ; Tao Jiang</i>	
PRECODER DESIGN FOR SECRECY RATE MAXIMIZATION IN THE DF-BASED MIMO RELAY NETWORKS	666
<i>Bing Fang ; Zuping Qian ; Wei Zhong ; Wei Shao</i>	
RESOURCE EFFICIENT BEAMFORMING DESIGN FOR HETEROGENEOUS MULTIUSER SYSTEMS	671
<i>Ying Lu ; Lei Wei ; Shiwen He ; Yongming Huang ; Luxi Yang</i>	

IMPROVED MMSE SQRD BASED DETECTION FOR MIMO-OFDM SYSTEMS WITH CO-CHANNEL INTERFERENCE	676
<i>Lei Cao ; Wenjin Wang ; Wen Zhong ; Xiqi Gao</i>	
CAPACITY FOR DOWNLINK MASSIVE MIMO MU-SCMA SYSTEM	682
<i>Tingting Liu ; Xinmin Li ; Ling Qiu</i>	
A NOVEL COOPERATIVE GLOBAL SPECTRUM SENSING ALGORITHM BASED ON VARIATIONAL BAYESIAN INFERENCE	687
<i>Ming Wu ; Tiecheng Song ; Lianfeng Shen ; Ziyang Jia ; Jing Hu</i>	
DISTRIBUTED COOPERATIVE SPECTRUM SENSING BASED ON CONSENSUS AMONG RELIABLE SECONDARY USERS	693
<i>Ji Wei ; Cao Haixi ; Yang Zhen</i>	
OPTIMAL MINIMALLY CONSTRAINED SYSTEM IN COOPERATIVE LOCALIZATION	699
<i>Ping Zhang ; Nan Yan ; Jun Zhang ; Chau Yuen</i>	
JOINT ANALYSIS OF THE SHAFT-RATE MAGNETIC FIELDS FOR VECTOR SENSORS	704
<i>Huan Hao ; Huali Wang ; Tinghui Yin</i>	
PEAK-TO-AVERAGE POWER RATIO REDUCTION FOR PULSE-SHAPING OFDM SYSTEMS	709
<i>Siming Peng ; Zhi Gang Yuan ; Shen Yuehong ; Wei Jian</i>	
B-SPLINE INSPIRED MULTIVARIATE GREY MODEL FOR SHORT-TERM TIME SERIES FORECASTING	714
<i>Dan He ; Qiang Zhao ; HengJia Qin</i>	
SIGNAL DETECTION AND BER ANALYSIS FOR RF-POWERED DEVICES UTILIZING AMBIENT BACKSCATTER	719
<i>Kang Lu ; Gongpu Wang ; Fengzhong Qu ; Zhangdui Zhong</i>	
OUTAGE PERFORMANCE ANALYSIS OF AMPLIFY-AND-FORWARD COGNITIVE RELAY NETWORKS WITH PARTIAL RELAY SELECTION	724
<i>Xinyi Wang ; Yuanxin Sun ; Huogen Yu ; Ting Feng ; Wanbin Tang ; Ying Zhang</i>	
MULTI-SECTOR JOINT BEAMFORMING FOR 3D COVERAGE CONTROL OF COMMON CONTROL SIGNALS	729
<i>Chaohui Zhao ; Cheng Wang ; Aiping Huang ; Hangguan Shan</i>	
POWER ALLOCATION FOR TWO-USER COGNITIVE MULTIPLE ACCESS CHANNELS UNDER PRIMARY USER OUTAGE CONSTRAINT	735
<i>Qun Li ; Ding Xu</i>	
MOMENTS OF THE SNR OF TWO-HOP MULTICHANNEL RELAYING WITH SUBCHANNEL PAIRING	740
<i>Dong Qin ; Wang Yan</i>	
GRADIENT OPTIMIZED BLIND SOURCES SEPARATION ALGORITHM	745
<i>Hua Yang ; Hang Zhang ; Liu Yang</i>	
ADAPTIVE TIME-SLOT AND POWER ALLOCATION IN MIMO SYSTEMS FOR SIMULTANEOUS WIRELESS TWO-WAY INFORMATION AND ONE-WAY ENERGY TRANSFER	751
<i>Cheng Zhou ; Gaofeng Cui ; Yulong Pan ; Yinghai Zhang ; Weidong Wang</i>	
FISHER VECTOR WITH WEAKLY-SUPERVISED GAUSSIAN DICTIONARY FOR SCENE CLASSIFICATION	756
<i>Peng Tang ; Bin Feng ; Xinggang Wang ; Bi Li ; Sihua Yi ; Wenyu Liu</i>	
JOINT RLS AND LMS ADAPTIVE EQUALIZATION FOR INDOOR WIRELESS COMMUNICATIONS UNDER STAIRCASE ENVIRONMENTS	761
<i>Peng-Fei Cui ; Yu Yu ; Yang Liu ; Wen-Jun Lu ; Hong-Bo Zhu</i>	
GEOLOCATION DATABASE BASED RESOURCE SHARING AMONG MULTIPLE DEVICE-TO-DEVICE LINKS IN TV WHITE SPACE	766
<i>Zhen Xue ; Le Wang</i>	
AN EFFICIENT INTERFERENCE MITIGATING SCHEME FOR COGNITIVE RADIO NETWORKS: FROM THE PERSPECTIVE OF SPACE POOLING	772
<i>Shidang Li ; Chunguo Li ; Yongming Huang ; Yi Wang ; Dongming Wang ; Cheng Zhang ; Luxi Yang</i>	
ON TWO-WAY RELAY CHANNEL WITH AN ACTIVE MALICIOUS RELAY	777
<i>Yi-Chi Shao ; Meng-Hsi Chen ; Shih-Chun Lin ; Lin, W.S.</i>	
DELAY ANALYSIS OF IEEE 802.15.4 SLOTTED CSMA/CA CONSIDERING DEFERENCE MECHANISMS	783
<i>Linlin Luo ; Ming Zhang ; Jun Wei ; Wei Xu ; Yijin Zhang ; Feng Shu</i>	
SAFEGUARDING MASSIVE MIMO AIDED HETNETS USING PHYSICAL LAYER SECURITY	788
<i>Yansha Deng ; Lifeng Wang ; Kai-Kit Wong ; Nallanathan, A. ; ElKashlan, M. ; Lambotharan, S.</i>	
ANTENNA GROUPING FOR GENERAL DISCRIMINATORY CHANNEL ESTIMATION	793
<i>Bezanilla, J. ; Via, J.</i>	
A NOVEL EVIDENCE THEORY BASED ROW MESSAGE PASSING ALGORITHM FOR LDS SYSTEMS	798
<i>Yahui Liu ; Jie Zhong ; Pei Xiao ; Minjian Zhao</i>	
DISTRIBUTED OPPORTUNISTIC SPECTRUM ACCESS WITH DYNAMIC USERS: A GAME-THEORETIC LEARNING APPROACH	803
<i>Yuli Zhang ; Qian Zhao</i>	
A NOVEL DISTRIBUTED ROUTING ALGORITHM BASED ON DATA-DRIVEN IN GEO/LEO HYBRID SATELLITE NETWORK	808
<i>Xibao Feng ; Mingchuan Yang ; Qing Guo</i>	
A SOLUTION TO VELOCITY AMBIGUITY OF BROAD-BAND ACOUSTIC DOPPLER CURRENT PROFILER	813
<i>Lin Xu ; Dazhuan Xu ; Liukai Sheng</i>	

WIRELESS-POWERED FRIENDLY JAMMER FOR PHYSICAL LAYER SECURITY	818
<i>Wanchun Liu ; Xiangyun Zhou ; Durrani, S.</i>	
SECURE COMMUNICATION FOR MASSIVE MIMO UPLINK IN THE PRESENCE OF CO-LOCATED AND DISTRIBUTED EAVESDROPPERS	823
<i>Jue Wang ; Jemin Lee ; Quek, T.Q.S.</i>	
ON THE BUFFER-AIDED COLLABORATIVE RELAYING SCHEME FOR ASYMMETRIC PARALLEL RELAY NETWORKS	828
<i>Yong Liu ; Qingchun Chen ; Xiaohu Tang ; Hongbin Liang ; Yu Cheng ; Cai, L.X.</i>	
ANALYSIS ON THE STATE OF MOBILE HTTP VIDEO STREAMING AT THE CLIENT-SIDE	833
<i>Shuang Tang ; XiaoWei Qin ; Guo Wei</i>	
AN INTRA-CELL INTERFERENCE REDUCTION DESIGN IN DISTRIBUTED ANTENNA SYSTEMS	839
<i>Wangtao Wan ; Xiangyang Wang ; Qiao Pang ; Yang Zhao ; Xiaoteng Gu</i>	
CONGESTION CONTROL ALGORITHM BASED ON DUAL MODEL CONTROL OVER SATELLITE NETWORK	844
<i>Li Yang ; Debin Wei ; Chengsheng Pan ; Kangzhen Wang</i>	
LENV: A NEW LIGHT-WEIGHTED EDGE NETWORK VIRTUALIZATION FRAMEWORK IN SOFTWARE-DEFINED WIRELESS NETWORKS	850
<i>Tingting Hu ; Kaiping Xue ; Wenjia Wei ; Wei Jiang</i>	
LOW COMPLEXITY K-BEST ALGORITHM BASED ITERATIVE DETECTORS FOR MIMO-FBMC SYSTEMS	856
<i>Ying Fang ; Jie Zhong ; Minjian Zhao ; Ming Lei</i>	
A METHOD OF HIGH ACCURACY VELOCITY MEASUREMENT FOR LFM RADAR	861
<i>Zuoning Dai ; Xinggan Zhang ; Yechao Bai</i>	
AN ITERATIVE ALGORITHM FOR MULTIPLE-SOURCE DETECTION USING AN ARRAY	865
<i>Jirong Xin ; Shilian Wang ; Luxi Lu ; Laiyuan Luo</i>	
WAVELET DE-NOISING WITH IMPROVED THRESHOLD METHOD FOR BRIDGE HEALTH MONITORING	870
<i>Peiqiong Yu ; Li Yang ; Peng Chen ; Yuan Wu</i>	
CAPACITY OFFLOADING IN TWO-TIER SMALL CELL NETWORKS OVER UNLICENSED BAND: A HIERARCHICAL LEARNING FRAMEWORK	876
<i>Youming Sun ; Hongxiang Shao ; Junfei Qiu ; Jian Zhang ; Fenggang Sun ; Shuo Feng</i>	
DRIFT DETECTION AND CALIBRATION OF SENSOR NETWORKS	881
<i>Zhan Li ; Yuzhi Wang ; Anqi Yang ; Huazhong Yang</i>	
SECURE BEAMFORMING FOR COGNITIVE RADIO NETWORKS WITH ARTIFICIAL NOISE	887
<i>Yanan Wu ; Xiaoming Chen ; Xianfu Chen</i>	
ENERGY-EFFICIENT POWER ALLOCATION FOR SECURE COMMUNICATIONS IN WIRELESS POWERED MASSIVE MIMO RELAYING SYSTEMS	892
<i>Chuang Du ; Xiaoming Chen ; Lei Lei</i>	
INVESTIGATION ON PERFORMANCE OF OOK, DPSK, QDPSK IN A SPACE LASER UPLINK COMMUNICATION SYSTEM WITH THE CONSIDERATION OF BEAM WANDER	898
<i>Mi Li ; Minghui Tang ; Bowen Li ; Xuping Zhang ; Yuejiang Song ; Jiachen Yang</i>	
RESOURCE ALLOCATION FOR TWO-HOP COMMUNICATION WITH ENERGY HARVESTING CONSTRAINTS	902
<i>Baljon, M. ; Lian Zhao</i>	
FUNDAMENTAL PROPERTIES OF ON-OFF TRANSMISSION SCHEME FOR WIRETAP CHANNELS	907
<i>Shihao Yan ; Nan Yang ; Jinhong Yuan</i>	
SPARSE BAYESIAN LEARNING BASED USER DETECTION AND CHANNEL ESTIMATION FOR SCMA UPLINK SYSTEMS	912
<i>Yufeng Wang ; Shidong Zhou ; Limin Xiao ; Xiujun Zhang ; Jin Lian</i>	
A PREDICTIVE LOCALIZATION ALGORITHM BASED ON RBF NEURAL NETWORK FOR WIRELESS SENSOR NETWORKS	917
<i>Chenxian Xiao ; Ning Yu</i>	
A NEW TIME DELAY ESTIMATION ALGORITHM FOR MIXED OFDM SIGNAL	922
<i>Zhang Xing ; Hu Jian-hao</i>	
WIDEBAND SPECTRUM SENSING BASED ON OPTIMIZED ADAPTIVE COMPRESSIVE SAMPLING	927
<i>Zhiwen Wang ; Yitao Xu ; Han Jiang ; Yijie Luo ; Yong Zhao</i>	
ANALYSIS OF SFR'S IMPACTION ON DELAY TIME BASED DMMAC FOR VANETS	933
<i>Wenqian Huang ; Yiwei Mao ; Xu Min ; Jing Hu ; Lianfeng Shen</i>	
LEARNING TO SEGMENT VIDEOS IN HEVC COMPRESSED DOMAIN	938
<i>Yilin Liang ; Mai Xu ; Jie Ren ; Zulin Wang</i>	
A PARTIAL SEGMENTS AGGREGATION-BASED EXPEDITED DELIVERY MECHANISM IN SPACE DTNS	943
<i>Fu Jiang ; Zhihua Yang ; Peng Yuan</i>	
CRITICAL MULTICAST	948
<i>Burleigh, S.</i>	
DELAY-TOLERANT ELECTRONIC COMMERCE	953
<i>Burleigh, S.</i>	
CUBOID SPARSE ARRAY SYNTHESIS FOR SENSOR SELECTION BY CONVEX OPTIMIZATION WITH CONSTRAINED BEAM PATTERN BASED ON WBAN	957
<i>Xiaolan Liu ; Fengye Hu ; Wei Xiong ; Yu Du ; Gang Guo</i>	

A METHOD TO ELIMINATE TDOA AMBIGUITY BASED ON FDOA AND FDOA-RATE	962
<i>Zhenqiang Li ; Ning Ge ; Zhen Huang ; Xi Chen</i>	
COMPUTATIONAL AND COMMUNICATION RESOURCE ALLOCATION FOR MOBILE COOPERATIVE CLOUDLET COMPUTING SYSTEMS	967
<i>Xingyu Zhao ; Yuan Zhang ; Lei Wei ; Min Lu</i>	
OPTIMIZING BASE STATIONS DEPLOYMENT IN WIRELESS ACCESS NETWORKS FOR SMART GRIDS	972
<i>Wenming Cui ; Yuan Zhang ; Lei Wei ; Min Lu</i>	
CRUCIAL AREA COVERAGE OF DIRECTIONAL SENSOR NETWORKS WITH LIMITED RESOURCE	977
<i>Yafei Huang ; Chaochen Gu ; Kaijie Wu ; Cailian Chen ; Xinping Guan</i>	
ADAPTIVE AND DISTRIBUTED SENSOR ACTIVATION IN WSN	982
<i>Mengyi Zhang ; Goupil, A. ; Colas, M. ; Gelle, G.</i>	
OPTIMIZING A PIPELINED MIMO SPHERE DETECTOR FOR ENERGY EFFICIENCY	987
<i>Adeva, E.P. ; Augustin, T.R. ; Fettweis, G.P.</i>	
PERFORMANCE EVALUATION FOR CACHING-BASED CONTENT DISTRIBUTION IN BACKHAUL-LIMITED SMALL CELL NETWORKS	993
<i>Ronghui Hou ; Yu Cheng ; Cai, L.X. ; Hongcheng Zhuang</i>	
TOMOSAR IMAGING BASED ON RANDOM SUPPORT SPLIT MATCHING PURSUIT ALGORITHM	998
<i>Yongjie Luo ; Xunchao Cong ; Qun Wan</i>	
COALITION FORMATION BASED ENERGY EFFICIENT SPECTRUM LEASING IN DOUBTFUL INBAND COOPERATIVE D2D COMMUNICATIONS	1003
<i>Hualiang Chen ; Dan Wu ; Yueming Cai ; Xinrong Guan</i>	
UNAMBIGUOUS S-CURVE SHAPING FOR MULTIPATH MITIGATION FOR MBOC MODULATED SIGNALS IN GNSS	1009
<i>Zhe Liu ; Baiyu Li ; Xiaomei Tang ; Feixue Wang</i>	
A COMPACT MULTI-CHANNEL RECEIVER FRONT-END USING SIP INTEGRATION TECHNOLOGY ON LTCC SUBSTRATE FOR WIRELESS COMMUNICATIONS	1014
<i>Yujin Zhou ; Anfeng Sun ; Jun Zhou ; Ya Shen</i>	
ANALYSIS OF ADJACENT CHANNEL INTERFERENCE IN HETEROGENEOUS CELLULAR NETWORKS	1019
<i>Min Zhang ; Lin Bai ; Chen Chen ; Jinho Choi</i>	
LOW COMPLEXITY COMPLEX MATRIX INVERSION METHOD FOR MIMO COMMUNICATION SYSTEMS	1024
<i>Denggao Yu ; Zhaohua Lu ; Shiwen He ; Bo Wu ; Yongming Huang ; Luxi Yang</i>	
THE RANGING ERROR INFLUENCE ON CHANNEL CAPACITY IN GEOSTATIONARY ORBITING SATELLITE COLLOCATION SYSTEMS	1029
<i>Lina Zhu ; Lin Bai ; Jindong Xie ; Tian Li</i>	
DISTRIBUTED RATELESS CODED COLLABORATION FOR SATELLITE RELAY NETWORKS	1034
<i>Shushi Gu ; Yang Yi ; Jian Jiao ; Wei Xiang ; Qinyu Zhang</i>	
AN ADS-B SPOOFING ATTACK DETECTION METHOD BASED ON LASSO ENSEMBLE EMPIRICAL MODE DECOMPOSITION	1040
<i>Zhiyuan Shen ; Han Wang</i>	
QOE-AWARE BANDWIDTH ALLOCATION METHOD WITH GEO SATELLITES COOPERATION IN DISTRIBUTED CONSTELLATION NETWORK	1045
<i>Ruian Wu ; Jinchun Gao ; Gang Xie ; Yuanan Liu ; Mangqing Guo ; Shuo Liu</i>	
THE PERFORMANCE ANALYSIS OF LDPC CODED SFH/BPSK ANTI-JAMMING SYSTEM	1050
<i>Kongzhe Yang ; Bangning Zhang ; Hangxian Wang ; Daoxing Guo</i>	
IDENTIFICATION AND MITIGATION OF NLOS BASED ON CHANNEL STATE INFORMATION FOR INDOOR WIFI LOCALIZATION	1055
<i>Xiong Cai ; Xiaohui Li ; Ruiyang Yuan ; Yongqiang Hei</i>	
PERFORMANCE ANALYSIS AND SUB-CARRIERS POWER ALLOCATION FOR MC-QCSK	1060
<i>Jiyu Bao ; Weikai Xu ; Lin Wang ; Tingting Huang</i>	
ADAPTIVE MEASUREMENT MATRIX DESIGN ORIENTED TOWARD LOW SIGNAL-TO-NOISE RATIO SCENE	1065
<i>Fangqing Wen ; Yu Zhang ; Gong Zhang</i>	
RESOURCE ALLOCATION IN FULL-DUPLEX OFDMA WIRELESS NETWORKS WITH INTERACTIVE SERVICE	1070
<i>Bingfeng Liu ; Yanfei Wei ; Yongkui Xue ; Hao Lei</i>	
MAX-MAX ANTENNA SELECTION FOR MULTI-ANTENNA TWO-WAY AF RELAYING NETWORKS	1076
<i>Jing Yang ; Yiyun Cheng ; Suyang Tang ; Lei Chen ; Lei Zhou</i>	
SPATIAL DOMAIN METHOD BASED ON 2D-DOA ESTIMATION AGAINST PILOT CONTAMINATION FOR MULTI-CELL MASSIVE MIMO SYSTEMS	1081
<i>Guowu Shang ; Hui Li</i>	
A FIRST-ROUND-BY-BY BASED PRIORITY SCHEME FOR WLANS WITH TWO ACCESS CATEGORIES	1086
<i>Yiwei Mao ; Lianfeng Shen</i>	
COMPRESSED SENSING BASED UWB RECEIVER SCHEME WITH NBI MITIGATION	1091
<i>Shuai Yan ; Kai Dong ; Deqiang Wang</i>	
AN OVERLAPPING DISTRIBUTED STATE ESTIMATION AND DETECTION METHOD IN SMART GRIDS	1096
<i>Wang Jianqiao ; Chen Cailian ; Guan Xinping</i>	
DATA ASSOCIATION COMBINED WITH THE PROBABILITY HYPOTHESIS DENSITY FILTER FOR MULTI-TARGET TRACKING	1101
<i>Yi Liu ; Ping Wang ; Yinghui Gao ; Jia Wang ; Ruigang Fu</i>	

A MIXED BEHAVIOR/STRUCTURAL MODEL FOR ANALOG LDPC DECODERS INCLUDING MISMATCH EFFECTS AND DYNAMIC BEHAVIOR	1107
<i>Zhe Zhao ; Fei Gao ; Hanyue Li ; Yimin Li ; Haikun Luo</i>	
ENERGY AND TIME OPTIMIZATION FOR WIRELESS COMPUTATION OFFLOADING	1112
<i>Ling Tang ; Qianmu Li</i>	
ACHIEVING PRIMARY SECRECY IN ENERGY HARVESTING CRNS USING STACKELBERG GAME	1117
<i>Long Chen ; Liusheng Huang ; Haipei Sun ; Hongli Xu ; Chenkai Yang</i>	
JOINT USER ASSOCIATION AND ABS PROPORTION OPTIMIZATION FOR LOAD BALANCING IN HETNET	1122
<i>Wang Jin ; Jiang Huilin ; Pan Zhiwen ; Liu Nan ; You Xiaohu ; Deng Tianle</i>	
ENERGY EFFICIENT BARRIER COVERAGE IN HYBRID DIRECTIONAL SENSOR NETWORKS	1128
<i>Lu Zhao ; Guangwei Bai ; Hang Shen ; Zhenmin Tang</i>	
A UNIFIED DESIGN OF SPECTRUM, ENERGY, AND COST EFFICIENT ULTRA-DENSE SMALL CELL NETWORKS	1133
<i>Chungang Yang</i>	
ENERGY EFFICIENT MULTI-PAIR TRANSMISSION IN LARGE-SCALE MULTI-ANTENNA RELAY SYSTEMS	1137
<i>Yi Wang ; Chunguo Li ; Yongming Huang ; Haibo Dai ; Shidang Li ; Luxi Yang</i>	
DESIGN AND EXPERIMENT OF FREQUENCY OFFSET ESTIMATION AND COMPENSATION IN HIGH-SPEED UNDERWATER ACOUSTIC COMMUNICATION	1143
<i>Yunqiang Bi ; Zhiqiang He ; Weipeng Jiang ; Kai Niu ; Yue Rong</i>	
JOINT RELAY SELECTION AND CHANNEL ALLOCATION IN COOPERATIVE COMMUNICATION: A GAME THEORETIC LEARNING SOLUTION	1148
<i>Cheng Ding ; Liang Shen ; Dianxiang Liu</i>	
SOIL MOISTURE RETRIEVAL USING FUZZY LOGIC BASED ON UWB SIGNALS	1153
<i>Fangqi Zhu ; Huaiyuan Liu ; Jing Liang</i>	
CLOUD-SHIFT: A NOVEL ALGORITHM FOR VISUAL OBJECT TRACKING	1158
<i>Bo Jiang ; Wenyan Gan ; Hailong Zhang ; Xin Wang</i>	
QUANTUM KEY DISTRIBUTION WITH SILENT ACTIVE POLARIZATION COMPENSATION WITHOUT A REFERENCE OPTICAL BEAM	1163
<i>Hua Zhou ; Yong Zhu ; Jian Wang ; Yang Su ; Zhiyong Xu ; Chuanxin Wu ; Jiyong Zhao ; Yanbo Wang ; Min He ; Li Jianhua ; Rong Wang</i>	
A CLUSTERING-BASED DOWNLINK RESOURCE ALLOCATION ALGORITHM FOR SMALL CELL NETWORKS	1167
<i>Song Fan ; Jun Zheng ; Jie Xiao</i>	
A SUB-NYQUIST WIDEBAND SPECTRUM SENSING SCHEME USING ALIASED SPECTRAL EDGE DETECTION AND DATABASE MATCHING	1172
<i>Jeng-Kuang Hwang ; Wei-Chin Chang ; Pei-Chi Hu</i>	
DYNAMIC CHANNEL MODELING FOR COMMUNICATION THROUGH TURBULENT PLASMA SHEATH	1177
<i>Jingzhuo Zhang ; Guolong He ; Peng Bai ; Ning Ge</i>	
USER DEMAND-CENTRIC DISTRIBUTED WIRELESS RESOURCE SHARING IN DYNAMIC ENVIRONMENT: A QOE GAME PERSPECTIVE	1182
<i>Jing Ren ; Zhiyong Du ; Fengyi Chen ; Lijie Yin</i>	
COOPERATION OF CONGESTION CONTROL BASED ON ENERGY-AWARE IN HETEROGENEOUS NETWORKS	1187
<i>Wang Zhen-chao ; Yang Xiao-long</i>	
ENERGY EFFICIENT JOINT SCHEDULING AND RESOURCE ALLOCATION FOR DOWNLINK COGNITIVE RADIO NETWORKS	1193
<i>Ding Xu ; Qun Li</i>	
ANALYSIS OF SECRECY RATE AGAINST EAVESDROPPERS IN MIMO MODULATION SYSTEMS	1198
<i>Yaman Wei ; Li Wang ; Svensson, T.</i>	
STATISTICAL MASSIVE MIMO DESIGN BASED ON UPLINK EIGENSPACE TRACKING	1203
<i>Jing Zhang ; Cheng Zhang ; Yongming Huang ; Luxi Yang</i>	
ERROR PERFORMANCE ANALYSIS IN SHORT AND LONG WAVELENGTH INFRARED FREE SPACE OPTICAL COMMUNICATION	1208
<i>Zhenyu Xu ; Xuemai Gu ; Zhe Wang ; Jingyuan Wang ; Zhiyong Xu</i>	
A LOW-COMPLEXITY DETECTOR FOR UPLINK MASSIVE MIMO SYSTEMS BASED ON GAUSSIAN APPROXIMATE BELIEF PROPAGATION	1212
<i>Yu Zhang ; Ling Huang ; Jian Song ; Jianqi Li ; Weilin Liu</i>	
SELF-ORGANIZED SPECTRUM ACCESS IN SMALL CELL NETWORKS: A NONCOOPERATION INTERFERENCE MINIMIZATION GAME SOLUTION	1217
<i>Ducheng Wu ; Lin Zhang ; Jingdi Zhou</i>	
MULTIPLE ARMED BANDITS BASED OPPORTUNISTIC CHANNEL ACCESS WITH SWITCHING COST IN BLOCK FADING CHANNEL	1222
<i>Zhiqiang Qin ; Weijun Liu ; Yawu Jiang ; Wenhui Li ; Jingdi Zhou</i>	
A TWO-DIMENSIONAL APRIORI BASED USER BEHAVIOR PREDICTION ALGORITHM IN MOBILE SOCIAL ENVIRONMENT	1227
<i>Wang Min ; Zhang Hui ; Yang Longxiang ; Zhu Hongbo</i>	

AN IMPROVED SMART EDGE REMOVAL LIGHT-HIERARCHY MULTICAST ROUTING ALGORITHM FOR OPTICAL NETWORKS	1232
<i>Chu Bingbing ; Liu Fei ; Shen Jianhua ; Chen Jian</i>	
A DISTRIBUTED DOWNLINK RESOURCE ALLOCATION ALGORITHM FOR DENSE SMALL CELL NETWORKS	1237
<i>Lin Cheng ; Jun Zheng ; Jie Xiao</i>	
ENHANCED URBAN MOBILE LOCALIZATION VIA PARTITIONED NLOS BIAS MODEL APPROACH	1243
<i>Tan-Jan Ho ; Bo-Yuan Chen</i>	
EFFICIENT VIRTUAL MACHINE SCHEDULING FOR DOWNLINK JOINT TRANSMISSION OF COMP IN C-RAN	1248
<i>Jing Dong ; Qinghai Yang ; Bingbing Li ; Kyung Sup Kwak</i>	
MIMO VLC POSITIONING SYSTEM BASED ON LEDS UTILIZING DIVERSITY RECEPTION TECHNOLOGY	1253
<i>Yingjun Zhou ; Yinfan Xu ; Zhixin Wang ; Nan Chi ; Xiaoyuan Lu</i>	
SUBSPACE-BASED MAXIMUM DOPPLER SPREAD ESTIMATION FOR LOFDM SYSTEMS WITH REDUCED TIME AVERAGING	1257
<i>Meng Gao ; Haihong Zhu ; Qingqiang Xu ; Shiming Xu ; Xiaoming Chen</i>	
APPLICATION OF NONLINEAR POLARIZATION VECTOR TRANSLATION IN RADAR ANTI-JAMMING	1262
<i>Zhang, S.Y. ; Li, Y.Z. ; Shi, L.F. ; Xiao, S.P.</i>	
SECURITY-RELIABILITY TRADEOFF FOR RELAY SELECTION IN COOPERATIVE AMPLIFY-AND-FORWARD RELAY NETWORKS	1267
<i>Jia Zhu ; Zhida Liu ; Yuan Jiang ; Yulong Zou</i>	
AN EVENT-DRIVEN GRAPH-BASED MIN-COST DELIVERY ALGORITHM IN EARTH OBSERVATION DTN NETWORKS	1271
<i>Peng Yuan ; Zhihua Yang ; Yunhe Li ; Qinyu Zhang</i>	
BLIND DETECTION OF SATELLITE COMMUNICATION SIGNALS BASED ON CYCLIC SPECTRUM	1277
<i>Qingyuan Wang ; Zhidong Xie ; Jing Hu ; Gengxin Zhang</i>	
POWER CONTROL FOR RELAY-ASSISTED DEVICE-TO-DEVICE COMMUNICATION UNDERLAYING CELLULAR NETWORKS	1282
<i>Jian-Feng Shi ; Li Tao ; Ming Chen ; Zhao-Hui Yang</i>	
SERVICE ORIENTED COOPERATION ARCHITECTURE FOR DISTRIBUTED SATELLITE NETWORKS	1288
<i>Xiao-Bo Guo ; Hong-bin Zhou ; Gang Liu</i>	
DIVERGENCE MINIMIZATION APPROACH TO JOINT PHASE ESTIMATION AND DECODING IN SATELLITE TRANSMISSIONS	1293
<i>Linan Huang ; Sheng Wu ; Linling Kuang</i>	
DYNAMIC FUZZY Q-LEARNING FOR HANDOVER PARAMETERS OPTIMIZATION IN 5G MULTI-TIER NETWORKS	1299
<i>Jin Wu ; Jing Liu ; Zhangpeng Huang ; Shuqiang Zheng</i>	
ON THE PERFORMANCE INDEXES OF PHYSICAL LAYER SECURITY FOR MULTI-BEAM SATELLITE NETWORKS	1304
<i>Dongtang Ma ; Xiaoran Liu ; Xiao Wang ; Jun Xiong ; Wei Li</i>	
A METHOD OF TIME SYNCHRONIZATION OF UPLINK SIGNAL ON LEO SATELLITE	1310
<i>Liang Ning-rui ; Cheng Jian ; Ge Xin-xing ; Wei Wu</i>	
ON THE ORBITAL ANGULAR MOMENTUM BASED MODULATION/DEMODULATION SCHEME FOR FREE SPACE OPTICAL COMMUNICATIONS	1315
<i>Dongtang Ma ; Xu Liu</i>	
LOCALLY COOPERATIVE TRAFFIC-OFFLOADING IN MULTI-MODE SMALL CELL NETWORKS: POTENTIAL GAMES	1320
<i>Hongxiang Shao ; Youming Sun ; Hangsheng Zhao ; Wei Zhong</i>	
PARALLEL COOPERATIVE SENSING IN MULTICHANNEL COGNITIVE RADIO NETWORKS WITH PARTIAL CSI	1325
<i>JiangBo Si ; Zan Li ; Ding Yang ; ZuoYu Yan</i>	
ENERGY- AND SPECTRAL-EFFICIENT POWER ALLOCATION IN MULTI-BEAM SATELLITES SYSTEM WITH CO-CHANNEL INTERFERENCE	1331
<i>Xi Kan ; Xiaodong Xu</i>	
AN RSU ON/OFF SCHEDULING MECHANISM FOR ENERGY EFFICIENCY IN SPARSE VEHICULAR NETWORKS	1337
<i>Chenlu Wen ; Jun Zheng</i>	
DUAL-POLARIZED SPATIAL DIVISION MULTIPLE ACCESS TRANSMISSION FOR 3D MULTIUSER MASSIVE MIMO	1342
<i>Fenfen Cheng ; Peng Jiang ; Shi Jin ; Qing Huang</i>	
PATTERN DIVISION MULTIPLE ACCESS (PDMA) FOR CELLULAR FUTURE RADIO ACCESS	1347
<i>Jie Zeng ; Bing Li ; Xin Su ; Liping Rong ; Rongrong Xing</i>	
INTEGRATING GPS AND LEO TO ACCELERATE CONVERGENCE TIME OF PRECISE POINT POSITIONING	1352
<i>Mingxing Ke ; Jing Lv ; Jiang Chang ; Weiheng Dai ; Kaixiang Tong ; Ming Zhu</i>	
JOINT DOA AND FREQUENCY ESTIMATION BASED ON SPATIO-TEMPORAL CO-PRIME SAMPLING	1357
<i>Wanghan Lv ; Huali Wang</i>	
JOINT ROUTING AND RESOURCE CONTROL IN SOFTWARE-DEFINED SENSOR NETWORKS	1361
<i>Mei Li ; Junchao Li ; Lianfeng Shen</i>	

RESEARCH OF PATH LOSS EXPONENT AND DISTANCE ESTIMATION BASED ON DOPPLER EFFECT AND FREQUENCY DIVERSITY	1366
<i>Xu Min ; Ziyang Jia ; Wenqian Huang ; Jing Hu ; Lianfeng Shen</i>	
A SOLUTION OF SPLITTABLE LARGE FLOW SCHEDULING BASED ON MCMF IN SOFTWARE DEFINED NETWORK	1371
<i>Haipai Sun ; Liusheng Huang ; Long Chen ; Hongli Xu ; Jianxin Wang</i>	
EFFECT OF OUTDATED CSI ON BUFFER-AIDED UNDERLAY COGNITIVE RELAY NETWORKS	1376
<i>Xuanxuan Tang ; Yueming Cai ; Wendong Yang ; Weiwei Yang ; Tao Zhang ; Hualiang Chen</i>	
USER COOPERATION IN OFDM-BASED COGNITIVE RADIO NETWORKS WITH SIMULTANEOUS WIRELESS INFORMATION AND POWER TRANSFER	1381
<i>Zan Gao ; Baoyun Wang</i>	
LINK ADAPTATION METHOD BASED ON MUTUAL INFORMATION FOR BDMA MASSIVE MIMO TRANSMISSION SYSTEM	1387
<i>Qinghua Sun ; Wenjin Wang ; Wen Zhong ; Xiqi Gao</i>	
INTRACRANIAL HEMORRHAGE DETECTION BY 3D VOXEL SEGMENTATION ON BRAIN CT IMAGES	1392
<i>Mingjie Sun ; Hu, R. ; Huimin Yu ; Bao Zhao ; Huipeng Ren</i>	
JOINT CELL SELECTION AND SUBCHANNEL ALLOCATION FOR ENERGY EFFICIENCY IN SMALL CELL NETWORKS: A COALITIONAL GAME	1397
<i>Akkrarajitsakul, K. ; Phunchongharn, P.</i>	
A HYBRID INDOOR POSITIONING SYSTEM BASED ON UWB AND INERTIAL NAVIGATION	1403
<i>Kai He ; Yueyue Zhang ; Yaping Zhu ; Weiwei Xia ; Ziyang Jia ; Lianfeng Shen</i>	
RESOURCE ALLOCATION FOR PREFERENCE-AWARE MULTICASTING IN ACTIVE ARRAY AIDED LTE NETWORKS	1408
<i>Mingli Chu ; Qinghai Yang ; Qingsu He ; Kyung Sup Kwak</i>	
USER-CENTRIC ENERGY-EFFICIENT RESOURCE ALLOCATION FOR WIRELESS POWERED COMMUNICATIONS	1413
<i>Qingqing Wu ; Wen Chen</i>	
BLIND RECOGNITION OF BCH CODE BASED ON GALOIS FIELD FOURIER TRANSFORM	1419
<i>Gang Wu ; Bangning Zhang ; Xiang Wen ; Daoxing Guo</i>	
DYNAMIC RESOURCE ALLOCATION FOR ENERGY-EFFICIENCY MAXIMIZATION IN HETEROGENEOUS WIRELESS NETWORKS	1423
<i>Fan Yang ; Qinghai Yang ; Qingsu He ; Kyung Sup Kwak</i>	
A NOVEL TRANSCIEVER ARCHITECTURE IN THE TWO-WAY RELAY CHANNEL WITH ANALOG AND DIGITAL BEAMFORMING	1428
<i>Shiqi Gong ; Chengwen Xing ; Zesong Fei ; Jingming Kuang</i>	
STATISTICAL SECURITY MODEL AND POWER ADAPTATION OVER WIRELESS FADING CHANNELS	1433
<i>Qinghe Du ; Li Sun ; Pinyi Ren ; Yichen Wang</i>	
AN UNEQUAL CODING SCHEME FOR SPACE IMAGE TRANSMISSION WITHIN THE FRAMEWORK OF CCSDS RECOMMENDATIONS	1439
<i>Jiachen Sun ; Kechao Huang ; Xiying Liu ; Xiao Ma</i>	
ROBUST COORDINATION FOR MULTI-CELL DISTRIBUTED ANTENNA SYSTEMS WITH SELECTIVE TRANSMISSION	1444
<i>Wei Feng ; Rui Shi ; Ning Ge ; Jianhua Lu</i>	
POWER CONTROL AND CHANNEL ACCESS FOR PHYSICAL-LAYER SECURITY OF D2D UNDERLAY COMMUNICATION	1449
<i>Yijie Luo ; Yang Yang ; Li Cui ; Bin Gao</i>	
ONE TRANSMISSION SCHEME BASED ON VARIABLE MSK MODULATOR FOR WIRELESS PHYSICAL LAYER SECURITY	1454
<i>Guozhen Zang ; Baohua Huang ; Lihua Chen ; Yuanyuan Gao</i>	
OPENFLOW BASED SPATIAL INFORMATION NETWORK ARCHITECTURE	1459
<i>Lei Shi ; Zhou Lu ; Peng Qin ; Haipeng Yao</i>	
μPCN — A BUNDLE PROTOCOL IMPLEMENTATION FOR MICROCONTROLLERS	1464
<i>Feldmann, M. ; Walter, F.</i>	
MONTE-CARLO BASED MODELING FOR ULTRAVIOLET NON-LINE-OF-SIGHT COMMUNICATION CHANNELS WITH TYPICAL OBSTACLES	1469
<i>Changming Xu ; Hongming Zhang</i>	
PERFORMANCE COMPARISON OF DIFFERENT TRANSMISSION SCHEMES IN UPLINK MASSIVE MIMO SYSTEMS WITH DUAL-ANTENNA USERS	1474
<i>Yuehao Zhou ; Caijun Zhong ; Zhaoyang Zhang</i>	
ADAPTIVE ECG COMPRESSION SCHEME WITH PRIOR KNOWLEDGE SUPPORT BASED ON COMPRESSIVE SENSING	1480
<i>Yang He ; Wenbin Yu ; Cailian Chen ; Yiyin Wang ; Xinpeng Guan</i>	
ASSOCIATION ANALYSIS AND PREDICTION FOR IPTV SERVICE DATA AND USER'S QOE	1485
<i>Siying Sun ; Xin Wei ; Lei Wang ; Jianxin Chen</i>	
OPTIMAL COOPERATIVE SPECTRUM SENSING STRATEGY IN COGNITIVE RADIO NETWORKS EXPLOITING RF-ENERGY HARVESTING	1490
<i>Huidong Liu ; Jin Chen ; Guoru Ding ; Kaiqiang Yan ; Li Cui</i>	
ENERGY EFFICIENT POWER ALLOCATION SCHEME IN HETEROGENEOUS CELLULAR NETWORKS	1495
<i>Yan Lin ; Shidang Li ; Yi Wang ; Chunguo Li ; Yongming Huang ; Luxi Yang</i>	

A NOVEL SPACE INFORMATION NETWORK ARCHITECTURE BASED ON AUTONOMOUS SYSTEM	1500
<i>Wei Zhang ; Dongming Bian ; Zhidong Xie ; Gengxin Zhang</i>	
DISTRIBUTED EXPLORATION BANDIT FOR DYNAMIC SPECTRUM ACCESS	1505
<i>Yuan Xue ; Pan Zhou ; Jun Li ; Tao Jiang</i>	
A NEW METHOD FOR TARGET ASSOCIATION USING GRIDDING ASSOCIATION DOMAIN AND TEMPLATE MATCHING	1510
<i>Fan Meng ; Tinghui Yin ; Xue Ni ; Zhaocui Huang ; Hui Chen</i>	
CHANNEL EQUALIZATION BASED CONVEX OPTIMIZATION	1514
<i>Wenliang Li ; Shanxiang Mu ; Feng Liu</i>	
STATISTICAL CHANNEL STATE INFORMATION ACQUISITION FOR MASSIVE MIMO COMMUNICATIONS	1518
<i>Zhitao Zheng ; Chengzhi Zhu ; Bin Jiang ; Wen Zhong ; Xiqi Gao</i>	
NON-STATIONARY MULTI-RING CHANNEL MODEL FOR MASSIVE MIMO SYSTEMS	1523
<i>Hailong Wu ; Shi Jin ; Xiqi Gao</i>	
COORDINATED MULTI-CELL MULTI-USER PILOT ALLOCATION IN MASSIVE MIMO SYSTEMS WITH TIME-SHIFTED PILOTS	1529
<i>Te Wei ; Wei Feng ; Rui Shi ; Ning Ge ; Jianhua Lu</i>	
AN EFFICIENT LOW PAPR TRAINING SEQUENCE DESIGN SCHEME UNDER SPECTRAL CONSTRAINTS IN MM-WAVE OFDM COMMUNICATION	1534
<i>Guangshi Yu ; Shiwen He ; Denggao Yu ; Luxi Yang ; Gang Zuo</i>	
INTELLIGENT JAMMING DESIGN FOR DISRUPTING DS-CDMA SYSTEMS	1539
<i>Guangyu Ti ; Ming Li ; Qian Liu ; Nan Zhao</i>	
MECHANISM OF SPECTRUM SHARING WITH QOS SUPPORT FOR SECONDARY USERS IN COGNITIVE RADIO NETWORKS	1544
<i>Yunhe Li ; Qinyu Zhang ; Haitao Wu ; Jian Jiao</i>	
PREAMBLE OPTIMIZATION BASED ON FREQUENCY DOMAIN AVERAGING FOR CHANNEL ESTIMATION IN OQAM-OFDM SYSTEMS	1549
<i>Dejin Kong ; Da Chen ; Daiming Qu ; Tao Jiang</i>	
PHYSICAL LAYER SECURITY FOR COOPERATIVE COMMUNICATION SYSTEM WITH UNTRUSTED RELAY BASED ON JAMMING SIGNALS	1555
<i>Qianqian Zhang ; Yuanyuan Gao ; Guozhen Zang ; Yuyang Zhang ; Nan Sha</i>	
TEMPORALLY AND SPATIALLY CORRELATED UPLINK CHANNEL ESTIMATION FOR MASSIVE MIMO SYSTEMS	1559
<i>Bin Lv ; Zhen Yang ; Youhong Feng</i>	
ENABLING EFFICIENT AND WIDE-COVERAGE VEHICULAR CONTENT DISTRIBUTION OVER TV WHITE SPACES	1564
<i>Haibo Zhou ; Nan Cheng ; Ning Zhang ; Shaohua Wu ; Lin Gui ; Quan Yu ; Shen, X.S. ; Fan Bai</i>	
NOVEL APM CONSTELLATION DESIGN FOR SPATIAL MODULATION SYSTEMS	1570
<i>Peng Zhang ; Chengduan Wang ; Shuaishuai Guo ; Haixia Zhang</i>	
CLOSED-FORM ASE OF DOWNLINK MASSIVE MIMO SYSTEM WITH UPLINK AND DOWNLINK TRAINING	1575
<i>Yitian Dong ; Ling Qiu</i>	
A 0.8V LOW-VOLTAGE LOW-POWER SOURCE-DRIVEN MIXER IN 0.18μm CMOS TECHNOLOGY	1580
<i>Bingjie Han ; Xiaolin Zhang ; Xin Li</i>	
SEMI-GREEDY SCHEME FOR SLOT ALLOCATION IN VEHICULAR NETWORKS	1584
<i>Yiwei Mao ; Lianfeng Shen</i>	
SPARSE-BASED FALSE TARGET IDENTIFICATION IN PULSE-DOPPLER RADAR WITH RANDOM PULSE INITIAL PHASE	1589
<i>Jinping Sui ; Xuefeng Zhang ; Zhen Liu ; Xizhang Wei ; Xiang Li</i>	
NON-CONTACT TIME VARYING HEART RATE MONITORING IN EXERCISE BY VIDEO CAMERA	1594
<i>Yang Cui ; Chang-Hong Fu ; Hong Hong ; Yijin Zhang ; Feng Shu</i>	
RECOGNITION OF DIGITAL MODULATION SIGNALS BASED ON HIGH-ORDER CUMULANTS	1599
<i>Yong Zhao ; Yi-tao Xu ; Han Jiang ; Yi-jie Luo ; Zhi-wen Wang</i>	
OPTIMAL TRAFFIC BALANCING SCHEME IN SMALL CELLS BETWEEN LICENSED AND UNLICENSED BANDS	1604
<i>Yingfeng Fang ; Chenggui Wang ; Guoru Ding ; Youming Sun</i>	
A NOVEL CONVEX APPROXIMATION METHOD TO WEIGHTED SUM OUTAGE RATE MAXIMIZATION FOR MULTICELL NETWORK	1610
<i>Lijun Zhai ; Jun Wang ; Desheng Wang ; Yingzhuang Liu</i>	
MULTIPLE TARGET LOCALIZATION AND POWER ESTIMATION IN WIRELESS SENSOR NETWORKS USING COMPRESSIVE SENSING	1614
<i>Peng Qian ; Yan Guo ; Ning Li ; Baoming Sun</i>	
DMCHS: AN ENERGY-ACCURACY TRADEOFF SCHEME FOR HETNET-BASED INDOOR LOCALIZATION FRAMEWORK	1619
<i>Jun Xia ; Chaojie Xu ; Zhongling Liu ; Hui Yu</i>	
AN ADAPTIVE DISTRIBUTED RE-CLUSTERING SCHEME FOR MOBILE WIRELESS SENSOR NETWORKS	1625
<i>Chaojie Xu ; Zhongling Liu ; Jun Xia ; Hui Yu</i>	
ANALYSIS OF PRECISION ESTIMATION OF RF METROLOGY IN SATELLITE FORMATION FLYING	1631
<i>Mu Weiqing ; Rongke Liu ; Yang Xinxin ; Kamel, E.</i>	

IMPROVED SPARSE CHANNEL ESTIMATION FOR MULTI-USER MASSIVE MIMO SYSTEMS WITH COMPRESSIVE SENSING	1636
<i>Ailing Wang ; Ying Wang ; Lisi Jiang</i>	
PULSE WIDTH MODULATION AND DEMODULATION SCHEME IN LONG-DISTANCE SCATTERING OPTICAL COMMUNICATION	1641
<i>Zhiyong Xu ; Chen Wang ; Jingyuan Wang ; Weicheng Pei ; Jiyong Zhao ; Yimei Wei</i>	
AN ACHIEVABILITY SCHEME FOR DOWNLINK MULTICELL PROCESSING WITH FINITE BACKHAUL CAPACITY: THE GENERAL CASE	1646
<i>Xiao Yi ; Nan Liu</i>	
OUTAGE ANALYSIS OF OFDM FULL DUPLEX RELAYING SYSTEMS	1651
<i>Songqing Wang ; Wendong Yang ; Wei Xu</i>	
SECRET KEY GENERATION VIA RANDOM BEAMFORMING IN STATIONARY ENVIRONMENT	1655
<i>Longwang Cheng ; Wei Li ; Dongtang Ma</i>	
RELIABILITY AND SECURITY PERFORMANCE ANALYSIS OF NON-REGENERATIVE UNTRUSTED RELAY NETWORKS	1660
<i>Dechuan Chen ; Lei Wang ; Tinghui Yin ; Xiaoming Xu ; Weiwei Yang ; Yueming Cai ; Wendong Yang</i>	
SMALL AREA BROADCAST IN LTE	1665
<i>Xipeng Zhu ; Dacheng Yang ; Jun Wang ; Xiaoxia Zhang</i>	
RESEARCH ON VIDEO CODING PARAMETERS AFFECTING OBJECT TRACKING	1670
<i>Ping Wang ; Lei Zhang ; Zemin Wu ; Renhui Xu</i>	
CAPACITY ANALYSIS FOR NON-ORTHOGONAL OVERLOADING TRANSMISSIONS UNDER CONSTELLATION CONSTRAINTS	1674
<i>Meng Cheng ; Yiqun Wu ; Yan Chen</i>	
VERTICAL HANDOFF DECISION ALGORITHMS FOR MOBILE SATELLITE SYSTEMS WITH ANCILLARY TERRESTRIAL COMPONENT	1679
<i>Shao Xinye ; Yang Mingchuan ; Guo Qing</i>	
SYSTEM CAPACITY ANALYSIS OF HYBRID CELLULAR NETWORKS WITH COGNITIVE RADIO RELAY	1684
<i>Chen Liu ; Qi Yang ; Haowen Wang ; Xuemin Hong ; Jianghong Shi ; Biyu Tang</i>	
EFFICIENT ITERATIVE SOFT DETECTION BASED ON POLYNOMIAL APPROXIMATION FOR MASSIVE MIMO	1689
<i>Feng Wang ; Chuan Zhang ; Xiao Liang ; Zhizheng Wu ; Shugong Xu ; Xiaohu You</i>	
LOW-COMPLEXITY ADAPTIVE SUCCESSIVE CANCELLATION LIST POLAR DECODER BASED ON RELAXED SORTING	1694
<i>Junmei Yang ; Chuan Zhang ; Shugong Xu ; Xiaohu You</i>	
THEORETICAL ANALYSIS OF HANDOVER FAILURE AND NO HANDOVER RATES FOR HETEROGENEOUS NETWORKS	1699
<i>Dong Chen ; Jing Liu ; Zhangpeng Huang ; Zhifeng Zhang ; Jin Wu</i>	
EXPLOITING FULL DUPLEX TECHNIQUES FOR SECURE COMMUNICATION IN SWIPT SYSTEM	1704
<i>Weifeng Mou ; Yueming Cai ; Weiwei Yang ; Wendong Yang ; Xiaoming Xu ; Jianwei Hu</i>	
DOWNLINK NON-ORTHOGONAL MULTIPLE ACCESS SYSTEM WITH LIMITED FEEDBACK CHANNEL	1710
<i>Shimei Liu ; Chao Zhang</i>	
ENERGY EFFICIENT SUBCHANNEL PAIRING FOR BUFFER-AIDED MULTI-RELAY MIMO-OFDM NETWORKS	1715
<i>Shuang Yang ; Yueming Cai ; Junquan Hu ; Wendong Yang ; Lei Wang ; Weiwei Yang</i>	
A MODELING TECHNIQUE UTILIZING FEEDBACK CONTROL THEORY FOR PERFORMANCE EVALUATION OF IOT SYSTEM IN REAL-TIME	1721
<i>Sato, K. ; Kawamoto, Y. ; Nishiyama, H. ; Kato, N. ; Shimizu, Y.</i>	
ENERGY-EFFICIENT AND SCALABLE CLUSTERING SCHEME FOR WIRELESS SENSOR NETWORKS	1726
<i>Haixia Peng ; Shuaizong Si ; Shen, X.S. ; Hai Zhao</i>	
THE TRUNCATED TRANSMISSION OF SPINAL CODES WITH IMPERFECT FEEDBACK IN BLOCK-FADING CHANNEL	1732
<i>Zhiyuan Li ; Rongke Liu ; Reifeng Duan ; Yi Hou</i>	
AN SCMA-BASED UPLINK INTER-CELL INTERFERENCE CANCELLATION TECHNIQUE FOR 5G WIRELESS SYSTEMS	1737
<i>Yi Li ; Xianfu Lei ; Pingzhi Fan ; Dageng Chen</i>	
DYNAMIC BANDWIDTH ALLOCATION IN MOBILE SOCIAL NETWORKS WITH MULTIPLE HOMING ACCESS	1742
<i>Zhou Su ; Qichao Xu ; Kuan Zhang ; Kan Yang ; Shen, X.S.</i>	
CAPACITY ANALYSIS OF UCA-BASED OAM MULTIPLEXING COMMUNICATION SYSTEM	1748
<i>Yuqing Yuan ; Zhaoyang Zhang ; Ji Cang ; Huayang Wu ; Caijun Zhong</i>	
DYNAMIC LOAD-BALANCING SPECTRUM DECISION FOR COGNITIVE RADIO NETWORKS WITH MULTI-CLASS SERVICES	1753
<i>Hongqiao Tian ; Jun Cai ; Alfa, A.S. ; Shiwei Huang ; Huijin Cao</i>	
SMALL CELL DEPLOYMENT IN LICENSED/UNLICENSED BAND: A LOCAL INTERACTION GAME FRAMEWORK	1758
<i>Wenlong Yin ; Jinlong Wang</i>	
AN OPTIMIZED DESIGN OF SCMA CODEBOOK BASED ON STAR-QAM SIGNALING CONSTELLATIONS	1763
<i>Lisu Yu ; Xianfu Lei ; Pingzhi Fan ; Dageng Chen</i>	

WEIGHTED MESSAGE PASSING ALGORITHM FOR SCMA	1768
<i>Dacheng Wei ; Yuxi Han ; Sihai Zhang ; Lei Liu</i>	
UNIVERSAL FILTERED MULTI-CARRIER TRANSMISSION WITH ACTIVE INTERFERENCE CANCELLATION	1773
<i>Hong Wang ; Zhaoyang Zhang ; Yu Zhang ; Chao Wang</i>	
ENERGY-EFFICIENT OPTIMIZATION FOR PHYSICAL LAYER SECURITY IN LARGE-SCALE RANDOM CRNS	1779
<i>Xiaoming Xu ; Yueming Cai ; Weiwei Yang ; Wendong Yang ; Junquan Hu ; Tinghui Yin</i>	
COORDINATED MULTI-USER TRANSMISSION IN DISTRIBUTED ANTENNA-BASED SPECTRUM-SHARING SYSTEMS	1785
<i>Zhao, Juntao ; Feng, Wei ; Shi, Rui ; Wang, Jing ; Zhao, Ming ; Wang, Jing</i>	
FAIRNESS-BASED PILOT ALLOCATION IN MULTI-CELL MASSIVE MIMO SYSTEMS	1790
<i>Xiting Han ; Haixia Zhang ; Dalei Wu ; Dongfeng Yuan</i>	
PACKET DELAY ANALYSIS IN WIRELESS MULTI-CHANNEL NETWORKS: A NETWORK CALCULUS PERSPECTIVE	1795
<i>Zhidu Li ; Yuehong Gao ; Pengxiang Li ; Lin Sang ; Dacheng Yang</i>	
AN OPTIMAL POWER ALLOCATION SCHEME FOR COOPERATIVE CC-HARQ OVER BLOCK RAYLEIGH FADING CHANNELS	1800
<i>Songhu Ge ; Yong Xi ; Yue Ma ; Longwang Cheng ; Jibo Wei</i>	
ROBUST SECURE SWITCHING TRANSMISSION IN MISOSE RELAYING NETWORKS WITH CHANNEL UNCERTAINTY	1805
<i>Zhi Lin ; Lei Wang ; Yueming Cai ; Weiwei Yang ; Wendong Yang</i>	
OUTAGE PERFORMANCE OF FULL-DUPLEX SELECTIVE DECODE-AND-FORWARD RELAYING OVER NAKAGAMI-M FADING CHANNELS	1811
<i>Yurong Wang ; Kui Xu ; Yongbin Li ; Youyun Xu ; Xianli Shen ; Fei Wang</i>	
SECREC RATE REGION OF INDEPENDENT PARALLEL MULTIPLE-CARRIER TWO-WAY SECURE COMMUNICATIONS WITH SECURE FEEDBACK	1817
<i>Tao Li ; Juntao Zhao ; Shidong Zhou</i>	
A NOVEL AND PRACTICAL ALGORITHM FOR GENERATING 3D VOLUMETRIC CLOUDS	1822
<i>Tiquan Sun ; Fenghui Xu ; Juan Lu ; Min Yin ; Xichuan Liu</i>	
CAPACITY LOWER BOUNDS OF IM/DD AWGN OPTICAL WIRELESS CHANNELS BASED ON FANO'S INEQUALITY	1827
<i>Liang Wu ; Zaichen Zhang ; Jian Dang ; Huaping Liu</i>	
A NEW TRANSCIEVER DESIGN BASED ON WEIGHTED SUM-MSE CRITERION FOR MULTI-CELL MIMO INTERFERING BROADCAST CHANNELS	1832
<i>Shidang Li ; Fei Li ; Chunguo Li ; Yongming Huang ; Dongming Wang ; Luxi Yang</i>	
ITERATIVE DETECTION AND DECODING FOR SCMA SYSTEMS WITH LDPC CODES	1837
<i>Baicen Xiao ; Kexin Xiao ; Shutian Zhang ; Zhiyong Chen ; Bin Xia ; Hui Liu</i>	
A NEW BIA SCHEME BASED ON RECONFIGURABLE ANTENNAS	1842
<i>An Huang ; Min Peng ; Yubo Li ; Zhou, Q.F.</i>	
DESIGN AND ANALYSIS OF IRREGULAR SPARSE CODE MULTIPLE ACCESS	1847
<i>Shutian Zhang ; Baicen Xiao ; Kexin Xiao ; Zhiyong Chen ; Bin Xia</i>	
SIMPLIFIED MULTIUSER DETECTION FOR SCMA WITH SUM-PRODUCT ALGORITHM	1852
<i>Kexin Xiao ; Baicen Xiao ; Shutian Zhang ; Zhiyong Chen ; Bin Xia</i>	
WAVE-OPTICS SIMULATION OF THE CHANNEL FADING IN MODULATING RETRO-REFLECTOR FREE-SPACE OPTICAL LINK	1857
<i>Shengzui You ; Guowei Yang ; Meihua Bi ; Yizhen Wei ; Yang Lu ; Xuefang Zhou</i>	
INTERFERENCE IMMUNE MULTI-HOP RELAYING AND EFFICIENT RELAY SELECTION ALGORITHM FOR ARBITRARILY LARGE HALF-DUPLEX GAUSSIAN WIRELESS NETWORKS	1862
<i>Jeong Kyun Lee ; Xiaohua Li</i>	
ANALYSIS AND OPTIMIZATION DESIGN OF P-LDPC CODED HYBRID FSO/RF SYSTEMS	1867
<i>Chengjun Tang ; Ming Jiang ; Chunming Zhao</i>	
JOINT EICIC AND DYNAMIC POINT BLANKING FOR ENERGY-EFFICIENCY IN HETEROGENEOUS NETWORK	1872
<i>Mei Wang ; Hailun Xia ; Chunyan Feng</i>	
AN ALL-TO-ALL BROADCASTING PROTOCOL USING DIRECTIONAL ANTENNAS IN MULTI-HOP WIRELESS NETWORKS	1878
<i>Peng Duan ; Laixian Peng ; Renhui Xu ; Wendong Zhao ; Chang Tian</i>	
NLOS AWARE TOF POSITIONING IN WLAN	1884
<i>Min Peng ; Zhou, Q.F. ; Xusheng Cheng</i>	
SOCIAL-AWARE FILE-SHARING MECHANISM FOR DEVICE-TO-DEVICE COMMUNICATIONS	1889
<i>Lei Wang ; Lulu Gao ; Aiqing Zhang ; Mingkai Chen</i>	
AN ADAPTIVE P-PERSISTENT CSMA SCHEME FOR LTE IN UNLICENSED BANDS	1894
<i>Baoan Jia</i>	
COMPARISON STUDIES OF MANET-SATELLITE AND MANET-CELLULAR NETWORKS INTEGRATIONS	1899
<i>Ye Miao ; Zhili Sun ; Ning Wang ; Cruickshank, H.</i>	
MULTI-BAND CARRIER-LESS AMPLITUDE AND PHASE MODULATION FOR HIGHLY BANDLIMITED VISIBLE LIGHT COMMUNICATIONS — INVITED PAPER	1904
<i>Haigh, P.A. ; Aguado, A. ; Ghassemlooy, Z. ; Chvojka, P. ; Werfli, K. ; Zvanovec, S. ; Ertunc, E. ; Kanesan, T.</i>	