

2009 International Conference on Wireless Communications & Signal Processing

(WCSP 2009)

**Nanjing, China
13 - 15 November 2009**

Pages 1 - 838



**IEEE Catalog Number: CFP0970H-PRT
ISBN: 978-1-4244-4856-2**

TABLE OF CONTENTS

Analysis of Per-Layer Transmit and Receive Filters Design for Multiuser MIMO Systems with Tomlinson-Harashima Precoding	1
<i>M. Huang, X. Chen, S. Zhou, J. Wang</i>	
On the Optimal Antenna Placement for DAS Systems	6
<i>C. Ren, M. Chen</i>	
Detection of Ships for OTHR Based on AR-MUSIC Algorithm	9
<i>C. Jian-Wen, G. Shan, B. Zheng</i>	
High-Resolution DOA Estimation of Noncircular Signals Without Source Enumeration and Eigendecomposition	13
<i>X. Qi, Y. Xu, S. Fu, Y. Wang, Z. Liu</i>	
A High Efficiency Spread Spectrum Modulation Based on Non-Strictly Orthogonal Sequences	17
<i>Q. Li, A. Q. Hu</i>	
ARC-MAC: An Automatic Relay Cooperative MAC Protocol for Wireless Ad Hoc Networks	20
<i>N. Li, N. Cheng, X. Xu, Y. Cai, Y. Luo</i>	
Increasing Reliability of an Interactive Mobile Satellite Telecommunication System Using Diversity and MIMO Schemes	25
<i>B. Ros, F. Lacoste, G. Scot, C. Boustie, L. Clarac, X. Fouchet</i>	
Study on Routing Protocol for WSNs Based on the Improved Prim Algorithm	30
<i>X. Pan, X. Zhang, H. Yu, C. Zhang</i>	
A New Beam-Forming Algorithm Based on Flank Acoustic Vector-Sensor Array Sonar	34
<i>G. Liang, K. Liu, W. Lin</i>	
UPF Algorithm and its Application in the GPS/INS Integrated Navigation	39
<i>L. Tian, J. Rong, X. Zhong, T. Li</i>	
MMSE Equalization of OFDM/OQAM Systems for Channels with Time and Frequency Dispersion	43
<i>N. Holte</i>	
Research and Design of EMI Digital Filters Using Scattering Parameters	48
<i>S. Liu, Y. Zhang, D. Yu</i>	
An Improved 8-32 kbps Embedded Speech Codec Based on ITU-T EV-VBR Candidate Codec	53
<i>J. Xin, C. C. Bao, M. S. Jia, X. Liu</i>	
DLCA: A Distributed Link-Weighted and Distance-Constrained Channel Assignment for Single-Radio Multi-Channel Wireless Mesh Networks	57
<i>J. Jin, B. Zhao, H. Zhou</i>	
A Greedy-Based Resource Allocation Algorithm for Multicast and Unicast Services in OFDM System	62
<i>J. Shen, N. Yi, B. Wu, W. Jiang, H. Xiang</i>	
Genetic Algorithm in the Design of Thinned Arrays with Low Sidelobe Levels	67
<i>F. Zhao, N. Cheng</i>	
Two-Stage Blind Adaptive Multiuser Detection Algorithm for DS-CDMA UWB in ISI Channels	71
<i>F. Wang, C. Q. Xu</i>	
Cross-Layer Optimization of Wireless Multi-Hop Networks with Network Coding	76
<i>L. You, P. Wu, Z. Pan, H. Hu, J. Song, M. Song</i>	
Study on Signal Acquisition Algorithm of Laser Communication at Sea	81
<i>L. Da-She, L. Shu-E</i>	
Block Turbo Coded OFDM Scheme and Its Performances for UAV High-Speed Data Link	85
<i>C. Ding, C. Xiu</i>	
Improved Particle Swarm Optimization Algorithm Based Cross-Layer Power Allocation Scheme in Distributed Antenna System	89
<i>S. Tang, Y. Qian, M. Chen</i>	
Multi-Service QoS Guaranteed Based Downlink Cross-Layer Resource Block Allocation Algorithm in LTE Systems	93
<i>Y. Qian, C. Ren, S. Tang, M. Chen</i>	
A Novel Printed Monopole Antenna for Dual-Band WLAN Application	97
<i>H. Jiwei, D. Weiping</i>	
A Spectrum Sensing Method in Cognitive Radio Based on the Third Order Cyclic Cumulant	100
<i>Y. Lin, C. He, L. Jiang, D. He</i>	
A Sequential Chain Directional Transmission-Based Localization Algorithm	105
<i>X. Zhang, Y. Zhang, P. Liu, Z. Dong, S. Tian</i>	

Relay Selection Algorithm with Limited Feedback Precoding for MIMO Multiple Relay Channels	110
<i>Y. Han, Y. Fu, L. Yang</i>	
A New Joint Time and Frequency Offset Estimation Method for OFDM Systems	115
<i>A. H. Sajadi, H. Bakhshi, M. Manaffar, M. Naderi</i>	
A New Timing Synchronization Method for Orthogonal Frequency Division Multiplexing	119
<i>H. Bakhshi, M. Manaffar, A. Hashemi, M. Naderi</i>	
Downlink Outage Probability of Distributed Antenna Systems over Shadowed Nakagami-m Fading Channels With Antenna Selection	123
<i>H. M. Chan, J. B. Wang, M. Chen</i>	
An Enhanced Acquisition Method for Spread Spectrum Communication with High Bit Rate	127
<i>W. Jun, S. Wu, W. Ju</i>	
Study on Frequency-Shifting Jamming to Linear Frequency Modulation Pulse Compression Radars	132
<i>Y. Yang, W. M. Zhang, J. H. Yang</i>	
Low-Complexity Polyphase-Kernels-Based PAPR Reduction in OFDM	137
<i>Y. Jiang, Y. Wang</i>	
Improved Image Watermarking Scheme Using Nonnegative Matrix Factorization and Wavelet Transform	141
<i>L. Ma, S. Song</i>	
The Application of Compressed Sensing in Wireless Sensor Network	146
<i>P. Zhang, C. Chen, M. Liu</i>	
The Influence of Adjacent Channel Interference on FM Communication System	151
<i>Z. Bo, Q. Houde, Z. Huiqiang</i>	
Research on the Power Exponent and the Outage Exponent in Superposition Coding Relaying Strategy	155
<i>X. Jia, L. Yang, H. Fu, X. Liu</i>	
A New Method of Detecting Cycles in Tanner Graph of LDPC Codes	160
<i>B. Li, G. Wang, H. J. Yang</i>	
Frequency Estimation Based on Discrete Fourier Transform and Least Squares	163
<i>G. B. Zhang, Y. Liu, J. J. Xu, G. B. Hu</i>	
Performance Analysis of Parameter Estimation Algorithm for LFM Signals Using Quadratic Phase Function	167
<i>H. Li, Y. L. Qin, W. D. Jiang, H. Q. Wang, X. Li</i>	
Formal Analysis of Secure Routing Protocol for Ad Hoc Networks	171
<i>Q. Niu</i>	
Cost Design for Cross-Layer Resource Allocation in Cognitive Radio Ad Hoc Networks	175
<i>W. Chunde, P. Zhiwen, Y. Xiaohu, W. Ping, H. Honglin, Z. Yong</i>	
Special-Purpose Computer for 64-Point FFT Based on FPGA	179
<i>W. Xudong, L. Yu</i>	
An I/Q Channel 12-bit 200MS/s CMOS DAC with Three Stage Decoders for Wireless Communication	182
<i>Y. Yu, H. Shi, W. Ni</i>	
Iterative Joint Detection and Decoding Based on Interference Cancellation	186
<i>Z. Huayu, T. Hui, Z. Qin</i>	
On the Outage Probability of MBSFN in Correlated Shadow Fading	191
<i>Y. Li, Z. H. Jing, J. P. Wang, Y. Jing</i>	
A W-Band Quasi-Optical Power Combiner Based on Waveguide Lens	196
<i>M. Chen, W. Dou</i>	
On the Prediction of Time-Varying Channels in MISO Beamforming Systems	199
<i>L. Ding, B. Jiang, X. Gao</i>	
An Integer Frequency Offset Estimator in OFDM Systems	204
<i>J. Hua, L. Meng, G. Li, D. Wang, X. You</i>	
A Spatial-Multiplexing Time Division Dynamic Token Protocol for Ad Hoc Networks	208
<i>Y. Chang-Hua, W. Cheng-Gui, Z. Shi-Ding, Z. Zhao</i>	
Study on Fast Algorithm of Median Filtering Based on DC and ICS Method	213
<i>F. G. Dong, Y. L. Li</i>	
Cross-Hexagon-Based Motion Estimation Algorithm Using Motion Vector Adaptive Search Technique	218
<i>H. Y. Li, M. J. Liu</i>	
Multi-Access Interference in LTE Uplink with Multiple Carrier Frequency Offsets	222
<i>X. Zhang, J. Kim, H. G. Ryu</i>	
A Novel MAC Mechanism for Integrated Voice and Data in Ad Hoc Networks	226
<i>Z. Shi-Ding, N. Jing-Nan, Y. Chang-Hua</i>	

A Novel Modulation Scheme Combining the Advantages of CP-OFDM and TDS-OFDM	231
<i>Y. Xu, X. Su, Y. Xiao</i>	
Doppler Velocity Simulation and Application with SVVP Retrieval Method	236
<i>X. Wangping, W. Ming, W. Ziyue</i>	
PAPRs Reduction in MC-CDMA Signal Based on a Modified Phase Approach	241
<i>H. Rahmani, N. Neda</i>	
Optimal Power Allocation for Cognitive Relay Networks	246
<i>W. Yue, B. Zheng, Q. Meng</i>	
Antenna Location Design for Distributed Antenna Systems with Selective Transmission	251
<i>Y. Qian, M. Chen, X. Wang, P. Zhu</i>	
Clutter Processing for Digital Radars Based on FPGA and DSP	256
<i>S. Xu, M. Li, J. Suo</i>	
AE Signal Extraction Under the Strong Noise	260
<i>J. Changpeng, D. Wei</i>	
A Method for Spectrum Sensing Based on Distribution Statistics	263
<i>Z. Zhao, W. Zhang, S. Xu, H. Wang</i>	
A New Scheduling Algorithm with Low Complexity for Multiuser Multiple-Input Multiple-Output Downlink System	267
<i>L. Jin, Z. Hu, X. Gu</i>	
Improved Relay Selection and Subcarrier Pairing with Fairness Constraints for OFDM Networks	272
<i>C. Cai, W. Yang, Y. Cai</i>	
Performance Analysis on Call Admission Control in C3G-A System	276
<i>X. Li, L. Shen, B. Xu</i>	
A General Design of Orthogonal Sequences with Alternate Periodic Correlation Values Equal to Zero	280
<i>Z. Zhang, F. Zhen, G. Xuan</i>	
Orthogonalization Aided Distributed Scheduling for MU-MIMO BC with Adaptive Feedback	284
<i>Z. Li, J. Yang</i>	
A Signal Separation Method for Phased Array Radars	289
<i>S. Feng, J. Tao</i>	
A Novel Energy-Efficient Clustering Protocol Based on Specific Location	293
<i>H. Y. Qian, B. Chen, X. L. Qin</i>	
A Multicast Routing Tree Algorithm with Minimum Energy in MANET	298
<i>M. Yin, M. Y. Liang, Y. Tang</i>	
Adaptive Detectors for MIMO Radar with Sidelobe Signal Rejection Capabilities	302
<i>J. Wang, S. Jiang, J. He, Z. Liu, C. Baker</i>	
Parallel Blind Source Separation by Kurtosis Maximization with Successive Prewhitening	307
<i>J. Du, C. Y. Chi, T. H. Chang, J. Liu</i>	
Matching Networks Synthesis Using Small Reflection Theory	312
<i>L. C. Tsai</i>	
Simplified Noncoherent MAP Decoding Algorithm Based on SCCC Structure	315
<i>M. Cao, J. P. Li, X. Liu, M. Cao</i>	
Study on a Method of Measuring Bioelectromagnetic Field	320
<i>C. Honglong, G. Huiping, L. Xueguan, C. Wenfeng, C. Yi, T. Jian</i>	
A New Kind of On-Line Prediction BSE Method Based on Genetic Algorithm	323
<i>B. Lin, C. Hao</i>	
Disparity Estimation Algorithm for Stereo Video Coding Based on Edge Detection	328
<i>J. Fan, F. Liu, W. Bao, H. Xia</i>	
Study on M-ary Spread Spectrum Systems Using Zero Correlation Zone Code	333
<i>J. You, L. Zhang, B. Wang</i>	
Research of Wireless Intrusion Prevention Systems Based on Plan Recognition and Honeypot	337
<i>G. Chen, H. Yao, Z. Wang</i>	
The Performance of RS-CC Concatenated Codes for the Relay Channel in WiMAX System	342
<i>X. Liu, X. Sun, M. Jiang, C. Zhao</i>	
A Route Tree-Based Channel Assignment Algorithm in Cognitive Wireless Mesh Networks	347
<i>C. L. Ding, G. A. Zhang, J. Y. Gu, Z. H. Bao</i>	
Adaptive Timing Synchronization Based on Extended Kalman Filter for Wavelet Packet Modulated Signals	352
<i>S. Yi, H. Jiuyu</i>	
Research on Fault Diagnosis Expert System Based on Vxi Bus for Charger I Circuit Board	357
<i>H. Cheng, W. Zhang, Z. Shao, W. Li, X. Liu</i>	
Design of a Compact Planar UWB Filter for Wireless Communication Applications	361
<i>J. F. Huang, J. Y. Wen, M. C. Huang</i>	

The Proof of AODV Loop Freedom	365
<i>M. Zhou, H. Yang, X. Zhang, J. Wang</i>	
High Performance Turbo Decoder on CELL BE for WiMax System	370
<i>H. Guo, J. Zhao, J. Chen, X. Chen, J. Wang</i>	
Accurate Frame Synchronization for IEEE 802.16d System	375
<i>S. Huang, J. He, X. Zeng, J. Li</i>	
A 1.2 V 3.1-10.6 GHz CMOS Low Noise Amplifier with 24 dB Gain and 2.4 dB Noise Figure	378
<i>S. Limei</i>	
A New Precoding Scheme Using Interference Alignment on Modulation Signal for Multi-User MIMO Downlink	382
<i>B. Li, Y. Luo, H. Shen</i>	
Distributed Iterative Power Allocation in Cognitive Wireless Mesh Networks.....	387
<i>X. Chen, Z. F. Zhao, H. Zhang, T. Chen</i>	
U-Filter's Gaussianization Function for Interference Background.....	392
<i>W. Pingbo, L. Feng</i>	
Joint Iterative Decoding for Irregular-LDPC-Based Coded Cooperation over a Non-Ideal Relay Channel.....	396
<i>J. Chen, F. Yang, S. Zhang, L. Tang, L. Luo, T. Le-Ngoc</i>	
A Modified Channel Model for Non-Isotropic Scattering Environments	401
<i>Q. Zhu, D. Xu, X. Chen</i>	
Precoder Division Multiplexing Access for Cognitive Radio.....	406
<i>L. Wang, B. Zheng, J. Cui, X. Xu</i>	
Modification and Digital Implementation of FAM Algorithm for Spectral Correlation	410
<i>G. Yu-Long, C. Yan-Ping</i>	
A Probabilistic Model for Lifetime Measurement in Privacy-Aware Sensor Networks	414
<i>X. Sun, Z. Wang, H. Chen, W. Lou</i>	
A Non-Stationary MIMO Vehicle-to-Vehicle Channel Model Based on the Geometrical T-Junction Model.....	419
<i>A. Chelli, M. Patzold</i>	
Velocity Compensation Based Ultra-Wide Bandwidth Wireless Moving Target Localization	424
<i>H. Ding, X. Li, X. T. Huang, Z. R. Li</i>	
Jammer Cancellation in Time-Hopping Impulse Radio Using Independent Component Analysis.....	428
<i>S. Chen, B. N. Zhang, D. Guo, Q. Y. Zhang</i>	
Design of Novel Fully-Differential Charge Pump	432
<i>Y. Zeng, Q. Wang, Y. N. Zhang, J. P. Zeng, S. H. Zhou, H. Q. Xie</i>	
Radiometric Correction Based on Multi-Temporal SPOT Satellite Images.....	436
<i>Z. Xiaoke, M. Chao, H. Haifeng, L. Fangfang</i>	
A New Method for TCP Congestion Control Based on AODV Congestion Indication	442
<i>L. Heng, G. Weimin, L. Youngmei, Z. Dongxue</i>	
Turbo Decoder for Second Generation Digital Video Broadcasting System	446
<i>Q. S. Tai, E. S. Kang, D. S. Han</i>	
A Novel Rate Control Scheme for H.264/SVC Base Layer	450
<i>T. Zhu, X. Zhang</i>	
A Distributed Dynamic Spectrum Access and Power Allocation Algorithm for Femtocell Networks	455
<i>Q. Su, A. Huang, Z. Wu, G. Yu, Z. Zhang, K. Xu, J. Yang</i>	
Multi-Objective Cooperative Algorithms Based on Game Theory in Cognitive Radio	460
<i>Y. Zhihui, S. Keqin</i>	
A Greedy Algorithm for Cognitive Network Resource Allocation Based on Minimum Remaining Constraint Space.....	464
<i>Y. Ma, Y. Xu, Y. Sheng</i>	
A 300bps Speech Coding Algorithm Based on Multi-Mode Matrix Quantization.....	469
<i>X. Zou, X. Zhang, Y. Zhang</i>	
New Power Allocation Schemes for AF Cooperative Communication Over Nakagami-m Fading Channels	473
<i>C. Zhai, J. Liu, L. Zheng, H. Chen</i>	
Full Connectivity and Probabilistic Coverage in Random Deployed 3D WSNs.....	478
<i>Z. Xiao, M. Huang, J. Shi, J. Yang, J. Peng</i>	
Near-Optimal Joint Antenna Selection for Amplify-and-Forward Relay Networks	482
<i>Y. Zhang, G. Zheng, C. Ji, K. K. Wong, D. J. Edwards, T. Cui</i>	
Optimizing Relay Selection and Power Allocation for Orthogonal Multiuser Downlink Systems	487
<i>G. Zheng, Y. Zhang, C. Ji, K. K. Wong</i>	

SOFNN-Based Equalization Using Rival Penalized Controlled Competitive Learning for Time-Varying Environments	492
<i>Y. J. Chang, C. L. Ho</i>	
Does Every Bit Need the Same power? An Investigation on Unequal Power Allocation for Irregular LDPC Codes	496
<i>H. Qi, D. Malone, V. Subramanian</i>	
An Improved Algorithm for Peak-to-Average Power Ratio Reduction in MIMO-OFDM Systems.....	501
<i>B. Yan, H. Zhang, Y. Yang, Q. Hu, M. Qiu</i>	
FAN Transform in Image Scrambling Encryption Application	505
<i>F. jing, H. Fei</i>	
A Novel Group Key Agreement Protocol for Ad Hoc Networks	509
<i>L. P. Zhang, Y. Wang, G. L. Li</i>	
A Novel Group Key Agreement Protocol for Wireless Sensor Networks	513
<i>L. P. Zhang, Y. Wang, G. L. Li</i>	
Tradeoff Between Utilization and Collision in Cognitive Radio	517
<i>H. J. Li, Q. Zhu</i>	
A Joint Scheduling and Transmission Power Control MAC Protocol for Wireless Ad Hoc Networks.....	522
<i>Y. Zhou, J. Liu, L. Zheng, C. Zhai</i>	
Gamma Correction with Revised Piecewise Curve and Edge Directed Error Diffusion	527
<i>M. Liu, Y. Ding, X. Wang, X. Yan</i>	
Coordinated Precoding for Downlink Multi-User MIMO Relay Network.....	531
<i>Z. Liu, Z. Fei, J. Kuang</i>	
Harmonic Pass-Band Suppression in Coupled-Serial-Shunted Lines Elliptic Band-Pass Filters	535
<i>L. C. Tsai</i>	
The Design of High-Speed Real Time Multi-Channel Sonar Simulation Signal Source Based on FPGA Parallel Technology	539
<i>X. Huang, X. A. Feng, T. Gao</i>	
Quantitative Analyses on the Finite Precision Effect of Computerized Logistic Map	543
<i>B. Zhang, G. Wang, C. Han</i>	
Performance Analysis of Fixed Gain Relaying Systems in Nakagami-m Fading Channels	547
<i>R. Zhao, L. Yang</i>	
An Improved Passive Location Algorithm Based on UKF.....	552
<i>X. Yang, F. Lu, G. Liu, J. Guo, Y. Xu, R. Wang</i>	
Gabor Feature-Based Complete Fisher Discriminant Framework for Facial Feature Extraction	557
<i>Z. Zeng</i>	
Distributed Probabilistic Broadcasting for Safety Applications in Vehicular Ad Hoc Networks.....	562
<i>Q. Yang, L. Shen, W. Xia</i>	
Performance Study of Multi-Traffic Access in WiMAX	567
<i>Y. Cheng, Y. Zhang, X. Gao</i>	
Channel Equalization with Rapid Convergence Based on ξ - Support Vector Machines	572
<i>L. Chang, X. K. Ruan</i>	
A Quasi-MAP Estimation Algorithm for Multiple Frequency Offsets in Distributed MIMO System.....	576
<i>Q. Wang, X. Lei, Y. Xiao, Y. Tian, S. Q. Li</i>	
Forward Error Correcting Codes Characterization Based on Rank Properties.....	581
<i>J. Barbier, J. Letessier</i>	
Joint Channel-Topology Based Opportunistic Relay Selection Strategy	586
<i>M. Yuanyuan, Z. Sihai, Z. Wuyang</i>	
Motion Detection Based on Temporal-to-Spatial Conversion of Depth Maps for Multi-View Video	590
<i>X. Lu, M. Yu, Y. Zhang, G. Jiang</i>	
New No-Reference Blocking Artifacts Metric Based on Human Visual System	595
<i>A. Wang, G. Jiang, X. Wang, M. Yu</i>	
Inversion of Typical Background Type Based on Photoelectric Parameters.....	600
<i>D. G. Yang, L. Xiang, S. P. Xiao, J. T. Han</i>	
Power Allocation in Interference Relay Channels Based on Non-Cooperative Game Theory.....	605
<i>D. Wu, Y. Cai</i>	
A Novel Design of Direct Sequence Spread Spectrum Receiver Based on Software Radio.....	610
<i>Z. Chen, X. Feng</i>	
A Novel Technique to Generate High Frequency Microwave Signal Based on Brillouin Phase Modulation to Amplitude Modulation Conversion.....	614
<i>S. Ying, P. Tao, W. Rong</i>	
A Novel Directional-NAV-Based Packets Scheduling Algorithm for Ad Hoc Networks	618
<i>C. Shi, X. Dai, L. Luo, M. Cui</i>	

Improved Coded Cooperation Scheme with Signal Space Diversity in Wireless Networks	622
<i>H. Zhao, H. Wang, J. Kuang, Z. Fei, C. Yan</i>	
Microwave Zeroth-Order Resonance Antenna Loaded with a Pair of DPS and ENG Materials.....	628
<i>S. Zhao, M. Xiao, Z. Qian</i>	
Key Techniques of Doppler Delay Mapping Receiver for GPS Remote Sensing	631
<i>Y. Lu, D. K. Yang, W. Q. Li, H. G. Xiong</i>	
Nonuniform Clustering Routing Protocol for Tunnel Wireless Sensor Network in Underground Mine.....	635
<i>H. Jiang, J. Q. W. Peng</i>	
Efficient Implementation of Quadratic Permutation Polynomial Interleaver in Turbo Codes	640
<i>C. Ma, P. Lin</i>	
Energy Consumption Evaluations of Cluster-Based Sensor Nodes with IEEE 802.15.4 Transceiver in Flat Rayleigh Fading Channel.....	645
<i>S. Fang, S. M. Berber, A. K. Swain</i>	
Multi-Slot Spectrum Sensing with Backward SPRT in Cognitive Radio Networks.....	650
<i>J. Guo, G. Zhong, D. Qu, T. Jiang</i>	
A Novel Semi-Blind Channel Estimation Algorithm for OFDM Systems.....	655
<i>H. Feng, L. Jianping, C. Chaoshi</i>	
Implementation of Beamforming Technology of Smart Antenna Based on TD-SCDMA System Simulation	659
<i>W. Song, T. Song, X. Li, B. Xu</i>	
A Variable Iterative Decoding Scheme for BICM-ID Based on Cross-Entropy	664
<i>Z. Shuai, L. Jianping, C. Chaoshi</i>	
A Novel Routing Algorithm Combined with Multi-Agent System for LEO Satellite IP Networks	668
<i>Z. Gao, Q. Guo, Z. Na</i>	
Performance of Incremental-Selective Decode-and-Forward Relaying Cooperative Communications over Rayleigh Fading Channels.....	673
<i>H. Chen, J. Liu, C. Zhai, Y. Liu</i>	
Adaptive Priority Routing with Ack_Mechanism for DTN Networks	678
<i>Z. Jin, X. Zhao, Y. Luo, D. Zhao</i>	
A Minimax Fair Scheduling for Prolonging the Lifetime of Wireless Sensor Networks	683
<i>X. Mao, P. Qiu</i>	
Asymmetric Stereoscopic Video Encoding Algorithm Based on Subjective Visual Characteristic	688
<i>S. Liu, F. Liu, J. Fan, H. Xia</i>	
Priority Bandwidth Request Scheme in IEEE802.16j Networks	693
<i>K. C. Chu, Y. H. Chen, L. C. Tsai</i>	
Structures and Cryptographic Properties of Single Cycle T-Functions.....	698
<i>X. Zhang, Q. Wen, Y. Lv</i>	
A Bias-Switch-Multiplexing Comparator for the ADC Used in SWR.....	703
<i>L. Haitao, W. Zhigong, M. Qiao, T. Kai</i>	
Evaluation of Cellular Distributed Power Control Algorithms in Wireless Ad Hoc Networks	707
<i>R. Haratian, M. Rasti, A. R. Sarafat</i>	
Optimization Model for Static Channel Assignment in Multi-Radio Multi-Channel Wireless Mesh Networks.....	711
<i>B. Zhou, Z. Zhao, A. Huang, Q. Chen</i>	
An Access Network Selection Algorithm Based on Hierarchy Analysis and Fuzzy Evaluation.....	716
<i>Y. Chen, J. Ai, Z. Tan</i>	
Multilevel PAM with Optimal Amplitudes for Non-Coherent Energy Detection	721
<i>R. Moorfeld, A. Finger</i>	
Frequency-Interleaved DFT-Spread OFDM Transmission with an Iterative Receiver	726
<i>W. Wang, X. Gao, X. You, K. K. Wong</i>	
A Robust Image Encryption Scheme Over Wireless Channels.....	731
<i>D. H. Liu, G. M. Shi, D. H. Gao, M. Gao</i>	
Multi-Parameter Estimation of Underwater Acoustic Channel Based on Fractional Fourier Transform	737
<i>G. Yang, M. Li, L. Zhang</i>	
Examination and Analysis of Polar Low Earth Orbit Constellation	742
<i>M. Nasser, E. Ershadi, R. Danesfahani</i>	
A Multi-Channel MAC Using No Dedicated Control Channels for Wireless Mesh Networks	747
<i>L. You, S. Jiang, G. Wei</i>	
Simple and Effective Speech Steganography in G.723.1 Low-Rate Codes.....	752
<i>T. Xu, Z. Yang</i>	

Easy-Hardware-Implementation MMPF for Maneuvering Target Tracking	756
<i>S. Hong, Z. Shi, K. Chen</i>	
Current Statistical Model Probability Hypothesis Density Filter for Multiple Maneuvering Targets Tracking	761
<i>M. Jin, S. Hong, Z. Shi, K. Chen</i>	
Differential Modulated OFDM System for HF Communications	766
<i>L. Peng, J. Pan, L. Wu</i>	
A Q-Learning Based Sensing Task Selection Scheme for Cognitive Radio Networks	771
<i>M. Li, Y. Xu, J. Hu</i>	
New Real-Time Resampling Algorithm for Particle Filters	776
<i>Y. Bao, J. Chen, Z. Shi, K. Chen</i>	
An Algorithm of Boundary Refinement Based on the Multi-Scale Feature for High Resolution Remote Sensing Images	781
<i>Y. Liu, G. He</i>	
How to Discover the Coding Opportunity for Practicle Wireless Network Coding?	785
<i>C. Dong, G. Chen, W. Yu, P. Yang, H. Wang</i>	
Primary-Prioritized Reservation Spectrum Allocation Policies in Heterogeneous Cognitive Networks	789
<i>Q. Meng, J. Zhu, X. Feng, B. Zheng</i>	
DDS-Based Injected Tone Canceling Method for Short-Wave PA Memory Effects Measurement	794
<i>C. Limin, L. Zhixing, W. Guojin, L. Songyun</i>	
A Novel Algorithm of Gait Recognition	798
<i>H. Liu, Y. Cao, Z. Wang</i>	
A Parallel Interleaver Design for IDMA Systems	803
<i>S. Wu, X. Chen, S. Zhou</i>	
Joint Sensing Period Optimization and Transmission Time Allocation for Cognitive Radio Networks	808
<i>Y. Xu, Y. Li, H. Zou, X. Yang</i>	
Joint Resource Allocation in Multiple Channels, Single Non-Regenerative Relay System	813
<i>R. Yin, Y. Zhang, J. Zhang, S. Chen, G. Yu, Z. Zhang</i>	
Study and Design of Integrated Crystal Oscillator	818
<i>S. H. Zhou, J. P. Zeng, Q. Xiong, Y. Zeng</i>	
A FDE Residual Inter-Symbol Interference Suppression Algorithm with MBOK Modulation for UWB Channels	821
<i>L. Zhu, Z. Xiao, N. Ge, J. Lu</i>	
Optimal Threshold of Energy Detection for Spectrum Sensing in Cognitive Radio	826
<i>S. Xie, L. Shen, J. Liu</i>	
ANN Indoor Position Determination Based on Area Correlation in WLAN Environment	831
<i>Z. Mu, X. Yubin, M. Lin</i>	
Inter-Mode Prediction Selection Algorithm for MPEG-2 to AVS Transcoder	835
<i>Y. Yao, L. Luo, L. Zhao</i>	
A 3.0-7.5 GHz CMOS UWB PA for Group 1-3 MB-OFDM Application Using Current-Reused and Shunt-Shunt Feedback	839
<i>S. A. Z. Murad, R. K. Pokharel, H. Kanaya, K. Yoshida, S. A. Z. Murad</i>	
Max-Min Throughput Tree Topology Construction in Wireless Mesh Networks	843
<i>Z. Zhao, H. Guan</i>	
A Spectrum-Efficient Cooperative Diversity Method Based on Butterfly Network	848
<i>W. Yan, H. Wu, W. Yang, Y. Cai</i>	
Leach-H: An Improved Routing Protocol for Collaborative Sensing Networks	853
<i>W. Wang, Q. Wang, W. Luo, M. Sheng, W. Wu, L. Hao</i>	
Dynamic Deployment of Wireless Nodes for Maximizing Network Lifetime in WSN	858
<i>Y. Xu, L. Shen, Q. Yang</i>	
A Mass-Target Real Time Localization System	863
<i>H. Jie, W. Qin, Y. Fan</i>	
Performance of Coverage and Wireless Link for HAPS Communication	868
<i>G. Mingxiang, Y. Fang, G. Qing</i>	
Simulation and Analysis on the Performances of Combined GEO-IGSO Satellite Constellation	872
<i>Y. Jiang, S. Feng, N. Li, Q. Gao, G. Zhang, G. Li</i>	
Application of Nonbinary LDPC Codes Based on Euclidean Geometries to MIMO Systems	876
<i>X. Jiang, Y. Yan, X. G. Xia, M. H. Lee</i>	
Implementation of Routing Protocols for Testbeds	881
<i>B. Blywis, M. Gunes, F. Juraschek, P. Schmidt</i>	
Spectrum Aware Highly Reliable Routing in Multihop Cognitive Radio Networks	886
<i>H. Song, X. Lin</i>	

Chip Design of Phase-Locked Loop for ISM Band Applications	891
<i>J. F. Huang, P. C. Li, J. Y. Wen, R. Y. Liu</i>	
ASAR: Ant-Based Spectrum Aware Routing for Cognitive Radio Networks	895
<i>B. Li, D. Li, Q. H. Wu, H. Li</i>	
Internet Protocol Over Satellite: Insights for Telecommunications Systems Managers	900
<i>S. Coe</i>	
A Novel Flow Control Scheme Over VANET	905
<i>B. Sun, F. Liu, X. Wang</i>	
Optimization for Cooperative Spectrum Sensing Under Bayesian Criteria	909
<i>J. Jing, Y. Xu</i>	
Signal Processing Application Based on An Improved CLIQUE Algorithm for Marine Motors' Bearing Faults Detection	914
<i>X. G. Zheng, F. Y. Hai, J. M. Bao, S. L. Xin</i>	
Performance Comparisons Between Slotted and Unslotted Spread Spectrum Ad Hoc Networks	919
<i>S. D. Sun, J. N. Nie</i>	
Multi-Constrained Routing in Wireless Multimedia Sensor Networks	924
<i>X. Yan, L. Li, F. J. An</i>	
Similarity Measure for Time Series Based on Piecewise Linear Approximation	929
<i>G. Li, Y. Wang, L. Zhang, X. Zhu</i>	
Theoretical Analysis on Local Mean Signal Power for Wireless Field Strength Coverage	933
<i>B. Ai, Z. D. Zhong, S. Y. Lin, G. Zhu</i>	
Performance of Direction of Arrival Estimation Based on Support Vector Regression in Impulsive Noise Environment	938
<i>X. He, Z. Liu, J. Bin</i>	
A Modified Spectral Subtraction Method for Speech Enhancement Based on Masking Property of Human Auditory System	942
<i>B. Y. Xia, Y. Liang, C. C. Bao</i>	
A New Reduced-Rank STAP Method Based on Cross Spectral Defined by Range Cell Echo	947
<i>R. Shan, C. Y. Fan, X. T. Huang</i>	
The Optimal Puncturing Pattern Design for Rate-Compatible Punctured Turbo Codes	950
<i>J. Li, Q. Chen, S. Gao, Z. Ma, P. Fan</i>	
Primary Study on the Electric Signal Transmission Characteristics of Human Meridians on Skin Surface	955
<i>Y. Wang, C. Huang, X. Lu, Z. Wang</i>	
Maximum MIMO Capacity of Rice Channel	959
<i>S. Yan, Z. Yerong</i>	
Constant-g_m Low-Power Rail-to-Rail Operational Amplifier	964
<i>Y. Zhang, Q. Meng, Z. Wang, S. Chen</i>	
A Novel Handover Scheme for Multi-Hop Transparent Relay Network	968
<i>J. Jiang, W. Heng, H. Zhang, G. Wu, H. Wang</i>	
An Extreme Low Bit Rate Speech Coding Algorithm Around 300bps	973
<i>G. Ming, J. Guo, J. B. Yang, W. Tan, Y. Chen</i>	
An Efficient Lossless Compression Algorithm for Bayer Pattern Images	977
<i>Y. Xiao, P. Cheng</i>	
An Effective Method to Detect Seal Images from Traditional Chinese Paintings	982
<i>H. Bao, D. Xu, S. Feng</i>	
Two Adaptive Diagonalization Method for Double STTD System	987
<i>T. Wu, R. Yu</i>	
A Hybrid Moving Strategy in Wireless Sensor Networks	991
<i>Y. Weng, W. Jia, G. Wang</i>	
Group Mobility in Wireless Sensor Network	996
<i>R. Chai, Y. L. Zhao, Q. B. Chen, L. Tang</i>	
A New Cell Search Scheme in 3GPP Long Term Evolution Downlink OFDMA Systems	1001
<i>P. Y. Tsai, H. W. Chang</i>	
An Investigation in Iterative Decoding of Reed-Solomon Codes Based on Adaptive Belief Propagation	1006
<i>Y. Yang, M. Jiang, X. Wu</i>	
An RLS Channel Tracking Algorithm with an Ordered Selection Technique for MIMO-OFDM Systems in Time-Selective Fading Channels	1011
<i>P. Y. Tsai, P. H. Hsieh</i>	
An Improved Variable Step-Size Dual-Mode Blind Equalization Algorithm for QAM Signals	1016
<i>C. Li, W. Dong, H. Luo</i>	

Joint Carrier Recovery and Blind Decision Feedback Equalizer over Fast Time-Varying Channels	1020
<i>H. Yang, L. Zhu</i>	
Protocol Analysis and Simulation of Iner-Satellite Communication for Formation Flying Systems	1024
<i>L. Zhu, J. Zhou</i>	
A GEO Satellite Mobile Telecommunications System Architecture Design Based on UMTS/S-UMTS	1028
<i>J. Wu, Y. Cheng, K. Wang, J. Du</i>	
A Unified Framework to Determine the Joint Statistics of Functions of Ordered Random Variables with Application to the Performance of Communication Systems Over Fading Channels	1033
<i>S. S. Nam, M. S. Alouini, H. C. Yang</i>	
A Sparse Signal Reconstruction Perspective for Direction-of-Arrive Estimation with a Distributed Polarization Sensitive Array	1038
<i>H. Chen, Q. Wan, Y. P. Liu, A. M. Huang</i>	
Design of New EPIRB Antenna with CRLH Structure	1043
<i>T. Jiang, F. P. Liu, M. Y. Zhu</i>	
Adaptive Virtual Relaying MIMO Decode and Forward	1047
<i>T. Kanakis, C. Litchfield, P. Rapajic</i>	
10-Gb/s High-Density Trans-Impedance Amplifier in 0.18-um CMOS	1052
<i>X. X. Wang, Z. G. Wang, J. S. Liu, X. M. Lei</i>	
Ad-Hoc Multipath Routing Protocol Based on Load Balance and Location Information	1056
<i>X. Li, S. Zhi, S. Xin, W. Zhiyuan, L. Qilong</i>	
Calculating Correlation Coefficients in 3-D Mix-Diversity MIMO Channel with Kronecker Product	1060
<i>L. Hai, Y. R. Zhang</i>	
Physical Layer Security for a 3-Receiver Broadcast Channel	1066
<i>L. C. Choo, K. K. Wong</i>	
Cross-Layer Designed Effective Bandwidth Estimation for Broadband Multimedia Satellite Networks with Adaptive Forward Error Control	1071
<i>L. Rong, L. Ruimin, C. Zhigang</i>	
An Anti-Jamming Improvement Strategy for Satellite Frequency-Hopping Communication	1076
<i>L. Rong, L. Ruimin</i>	
The Messy-Niche Algorithm Used for Image Super-Resolution	1081
<i>J. Xi, X. W. Zhao, X. W. Zhang, Y. D. Zhang, S. H. Wang</i>	
A High Speed Low Power Pulse Swallow Frequency Divider for DRM/DAB Frequency Synthesizer	1085
<i>X. Lei, Z. Wang, K. Wang, X. Wang</i>	
Energy-Efficient Clustering Routing Protocol Based on Weight	1089
<i>Y. Sun, W. Chen, B. Zhang, X. Liu, X. Gu</i>	
A Reputation Management Framework for Hybrid Wireless Relay Networks	1094
<i>Q. Ding, M. Jiang, X. Li, X. H. Zhou</i>	
Demand-Matching Spectrum Sharing Game for Non-Cooperative Cognitive Radio Network	1099
<i>J. Liu, L. Shen, T. Song, X. Wang</i>	
MeshScan: Performance of Passive Handoff and Active Handoff	1104
<i>Y. Chen, K. Kowalik, M. Davis</i>	
Application of Multipath Shape Factors in Nakagami-m Fading Channel	1109
<i>J. H. Lu, Y. Han</i>	
Single Channel Blind Signal Separation with Bayesian-MCMC	1113
<i>G. Peng, Z. T. Huang, F. H. Wang, W. L. Jiang</i>	
On the Out-of-Band Radiation of DFT-Based OFDM Using Pulse Shaping	1117
<i>R. Xu, H. Wang, M. Chen</i>	
A Method of Multipath Detection in Navigation Receiver	1122
<i>L. Gang, L. Guangxia, L. Jing, C. Jiang, J. Xiao</i>	
Using Phase Correction to Improve the Decision-Directed Frequency Tracking Algorithm for OFDM Systems	1125
<i>L. Zheng</i>	
Concurrent Blind Equalization Suitable for 16-QAM Signal	1130
<i>W. Rao, W. Q. Tan, D. S. Li, G. X. Dai, F. Xia, L. Fan, J. B. Liu, H. J. Xu</i>	
Voice Activity Detection Using Higher-Order Statistics in the Teager Energy Domain	1135
<i>Z. Song, T. Zhang, D. Zhang, T. Song</i>	
Cognitive Channel Combination Multi-Chanel MAC Protocol	1140
<i>L. Huang, H. Yu, D. Guo, M. Yu</i>	
A New Optimum Jitter Protection for Conversational VoIP	1145
<i>Q. Gong, P. Kabal</i>	
Constant Beam-Width Beam-Former based on Linear Least Square Method	1150
<i>X. Bo, S. Ya-Ling, L. Ming, Z. Xi</i>	

A Channel Adaptive Multi-Source Transmission Scheme in Wireless Sensor Networks	1154
<i>L. Zhang, C. Pan, Y. Cai</i>	
Wireless Multicast Scheduling with Packet Loss and Delay Constraints	1158
<i>J. Yu, Y. Xu, W. Xie, Z. Shen</i>	
A Fast Block Motion Estimation Algorithm with Multi-Directional Adaptation	1162
<i>C. J. Duanmu, X. Chen</i>	
Power Allocation Based on Convex Optimization Theory for Fading Channels in OFDM-Based Cognitive Radio Networks	1166
<i>T. Lun, H. Lin, W. Huan, C. Qian-Bin</i>	
On Capacity of BF-MIMO Wireless Downlink Transmission	1171
<i>J. Guo, H. Zhang, L. Jiang, W. Huo</i>	
A New Syllable-Lattice Based Approach for Mandarin Spoken Document Retrieval	1175
<i>L. Zhang, Y. Gao, X. Xiang, D. Lu</i>	
Proportional Fair Scheduling Combined with Adjustment of Two Hop Transmission Time for Relay-Aided OFDMA Systems	1179
<i>J. A. Han, W. S. Jeon</i>	
Design of FM-QACSK Chaotic Communication System	1184
<i>J. Pan, H. Zhang</i>	
An Improved Adaptive MAC Protocol for Wireless Sensor Networks Based on Cross-Layer Architecture	1188
<i>Q. Hu, Z. Tang</i>	
Blind Channel Estimation for OFDM and Multicarrier CDMA Systems Using Frequency-Domain Oversampling	1193
<i>Q. Shi, Y. Karasawa</i>	
A Modified Hybrid Dual-Mode Blind Equalization Algorithm for High-Order QAM Signals	1198
<i>C. Li, S. Xu, W. Dong, H. Luo</i>	
Capacity Analysis of Multi-Beam GEO Satellite Communication Systems with On-Board Switching	1202
<i>W. Jiuyin, Z. Yanbin, L. Jing, L. Guangxia</i>	
A Caching-Based Video-on-Demand Service in Wireless Relay Networks	1208
<i>F. Xie, K. A. Hua</i>	
Non-Ergodic Error-Rate Analysis of Finite Length Received Sequences	1213
<i>M. A. M. Hassanien, P. Loskot</i>	
Low-Complexity Soft-Decision Decoding Techniques for Linear Binary Block Codes	1218
<i>S. E. A. Alhawayseh, P. Loskot</i>	
A Measurement Study of Channel Dynamics in Wireless Mesh Networks	1223
<i>X. Ding, C. Hua, W. Xu, A. Huang</i>	
Joint Acquisition of PN Code and Adaptive Beam-Forming Weight With Reduced Complexity	1228
<i>Y. Zhang, H. Xiong, B. Li, Y. Xi</i>	
Secrecy and Reliability Using Raptor Codes in the Presence of a Wiretapper in a Multiple Path Wireless network	1233
<i>A. Kacewicz, S. B. Wicker</i>	
A Novel Approach for Approving Constant Image Brightness	1238
<i>L. Zhao, Y. Zheng, Q. Sun, D. Xia</i>	
Cyclostationarity-Based Spectrum Sensing Using Dual Cycle Frequencies	1242
<i>G. Zhong, Z. Zhao, D. Qu</i>	
A Novel Clipping Integrated into ACE for PAPR Reduction in OFDM Systems	1247
<i>Y. Zhou, T. Jiang</i>	
Study on Diversity Methods in Mobile Satellite Communication Systems	1251
<i>Y. Liu, F. Yao, S. Yu</i>	
Design and Performance Evaluation of Feedback Phase Recovery for M-PSK Signals	1255
<i>C. Yan, H. Wang, J. Kuang, N. Wu, H. Zhao</i>	
Multuser Interference Suppression for Uplink Interleaved FDMA with Carrier Frequency Offset	1260
<i>D. Yan, W. Bai, Y. Xiao, S. Li</i>	
Performance Evaluation of MIMO SC-FDMA System with FDE Receiver	1265
<i>W. Bai, D. Yan, Y. Xiao, S. Li</i>	
A New Design Method of Wideband Beam-Former	1270
<i>L. Jianguo, Y. Bingcheng</i>	
Joint Transmitter and Receiver Carrier Sensing Capability of CSMA in MANETs	1275
<i>M. Kaynia, G. E. Oien, N. Jindal</i>	
Reliable Onset Detection Scheme for Singing Voices Based on Enhanced Difference Filtering and Combined Features	1280
<i>B. S. Lin, H. J. Huang</i>	

Efficient Resource Allocation Scheme for OFDMA-Based Relaying Systems	1286
<i>S. S. Jeong, W. S. Jeon</i>	
PAR Reduction in OFDM Systems Based on Clipped Power Re-Allocation	1291
<i>W. Xu, S. Yu</i>	
A Non-Cooperative Power Control Game Via New Pricing in Cognitive Radio	1295
<i>J. Sun, Q. H. Wu</i>	
Whitening-Rotation-Based Semi-Blind Estimation of MIMO FIR Channels	1300
<i>Q. Zhang, W. P. Zhu, Q. Meng</i>	
Low Complexity DCT-Based Distributed Source Coding with Gray Code for Hyperspectral Image	1304
<i>J. Wang, R. Liu, H. Zhao</i>	
Efficient Point-to-Area Electromagnetic Field Calculation Using Tube Tracing Method	1309
<i>C. Saeidi, F. Hodjatkashani, A. Fard</i>	
A New Human hand-Image Tracking Method	1314
<i>H. Hong, X. Zhu</i>	
A New Channel Hopping MAC Protocol for Mobile Ad Hoc Networks	1319
<i>C. M. Chao, H. C. Tsai, K. J. Huang</i>	
A Double-Talk Detection Based on Dual-Auxiliary Filters of Different Taps	1324
<i>C. Zhaung, F. Jia, P. Wang, J. Hua</i>	
Circular Orthogonal Sequences Based Channel Estimation for MIMO SC-FDE Systems	1328
<i>D. Li, Y. Liu, H. Zhang</i>	
Fast Face Recognition Using a Combination of Image Pyramid and Hierarchical Clustering Algorithms	1332
<i>H. Momeni, M. T. Sadeghi, H. R. Abutalebi</i>	
Maximum Doppler Spread Estimation by Tracking the Delay-Subspace for LOFDM Systems in Doubly Dispersive Fading Channels	1337
<i>M. Gao, Y. H. Shen, Z. G. Yuan</i>	
Design and Implementation of a Video Surveillance System Based on 3G Network	1342
<i>L. Ruichao, H. Jing, S. Lianfeng</i>	
Adaptive Spatial Error Concealment Algorithm Selection Framework Using Fuzzy Classification	1346
<i>Z. Gan, L. Qi, X. Zhu</i>	
Level-Crossing Rate and Average Duration of Fades of the Envelope of Mobile-to-Mobile Fading Channels in K-Parallel Dual-Hop Relay Networks	1350
<i>B. Talha, M. Patzold</i>	
Iterative Crosstalk Cancellation Algorithm for Upstream Transmission	1355
<i>S. Wei, L. You-Ming, W. Xiao-Li</i>	
Better QoS and Less Power in Wireless Ad Hoc Networks by Distributed Power Control Using Power and SINR-Based Pricing Functions	1360
<i>R. Haratian, A. R. Sharafat</i>	
Efficient Channel Estimation for LTE Uplink	1365
<i>M. Zhou, B. Jiang, W. Zhong, X. Gao</i>	
Statistical Properties of the Capacity of Rice Channels with MRC and EGC	1370
<i>G. Rafiq, M. Patzold</i>	
A Systematic Frequency Planning Method in Direct Digital Synthesizer (DDS) Design	1375
<i>C. Huang, L. X. Ren, E. K. Mao</i>	
Reduction of Latency in Mobile Multi-hop Relay (MMR) Networks	1379
<i>W. Y. Jo, J. W. Jang</i>	
A Novel Blind Frequency Domain Equalizer for SIMO Systems	1384
<i>I. Moazzen, A. M. Doost-Hoseini, M. J. Omid</i>	
Image Complexity Adaptive Intra-Frame Rate Control Algorithm for H.264/AVC	1390
<i>Z. Cui, X. Zhu</i>	
Performance Analysis of the Distributed Antenna System with Antenna Selective Transmission Over Generalized Fading Channels	1395
<i>H. M. Chen, J. B. Wang, M. Chen</i>	
An Explicit-Pulsed Double-Edge Triggered JK Flip-Flop	1399
<i>Y. Dai, J. Shen</i>	
A 4.8 GHz RF CMOS Wideband LC VCO for Wireless Sensor Networks RFICs	1403
<i>F. Xiangning, Z. Jun, C. Xiaoguang</i>	
An Empirical Analysis for Evaluating the Link Quality of Robotic Sensor Networks	1408
<i>W. Zhuang, X. Chen, J. Tan, A. Song</i>	
A 2.4 GHz RF CMOS Up-Conversion Mixer for Wireless Sensor Networks Nodes	1413
<i>F. Xiangning, Z. Chisheng, Z. Lei</i>	

A Comprehensive Video Text Localization System Based on Stroke Filter	1418
<i>Z. Wu, X. Fang, C. Wang</i>	
A Link Level Load-Aware Queue Scheduling Algorithm on MAC Layer for Wireless Mesh Networks.....	1422
<i>W. He, S. Yang, D. Teng, Y. Hu</i>	
Ultrawideband Antenna Using CPW Resonators for Dual-Band Notched Characteristic.....	1427
<i>Y. F. Weng, S. W. Cheung, T. I. Yuk</i>	
Improving Fairness Using ARQ Messages in LTE Mobile Multi-Hop Relay (MMR) Networks.....	1431
<i>Y. H. Kwon, J. W. Jang</i>	
Performance and Optimal Resource Analysis of MIMO-OFDMA Uplink System with Carrier Frequency Offset.....	1436
<i>M. H. Chaudary, I. Khan, R. A. Shah, N. Rajatheva</i>	
Performance Analysis for MIMO MC-CDMA Systems with Imperfect Channel Estimation	1441
<i>J. Han, Y. Paichard</i>	
Frequency Reuse During Relay Transmission for Two-Hop IEEE 802.16j Relay Networks.....	1445
<i>S. W. Kim, J. Y. Jung, J. W. Jang</i>	
Dynamic Frame Scheduling with Load Balancing for IEEE 802.16j	1450
<i>H. Baek, J. W. Jang</i>	
A 42 mW 2 GS/s 4-Bit Flash ADC in 0.18-μm CMOS	1455
<i>L. Wu, F. Huang, Y. Gao, Y. Wang, J. Cheng</i>	
Multiband Analysis of Sierpinski Gasket Antenna with an Iterative Method.....	1460
<i>X. Qu, Z. He, W. Shi, Y. Liu, Z. Qian</i>	
A Novel Blind Equalization Algorithm Based on Affine Projection and Quantization Estimation Errors	1464
<i>M. Zhang, X. Gao, L. Dai, W. Sun, Y. Huang</i>	
The Credibility-Based Swept Wideband Sensing in Cognitive Radio	1467
<i>H. Han, J. L. Wang, Q. H. Wu</i>	
An Improved Dynamic Clustering Algorithm for Multi-User Distributed Antenna System	1472
<i>J. Liu, D. Wang</i>	
Label Mis-Switching Rate Analysis in Satellite MPLS Networks.....	1477
<i>J. Yan, S. Wu, F. Zhou</i>	
A Distributed JPEG2000 Coding Algorithm Based on Mobile Agent.....	1481
<i>L. Zhixing, Z. Jing, Z. Li</i>	
Decentralized Inter-Radio Access Network Dynamic Spectrum Selection Scheme	1486
<i>A. Yarmohammad, R. Tafazolli</i>	
Optimal Pilot Sequences Design for MIMO OFDM Channel Estimation	1491
<i>Y. Li, S. Li, Z. Yi</i>	
Optimum Power Allocation for Hybrid Relay Selection Schemes.....	1496
<i>T. Liu, L. Song, B. Jiao</i>	
Adaptive Resource Allocation in Multi-User OFDM-Based Cognitive Radio Systems	1501
<i>G. Ding, Q. Wu, N. Min, G. Zhou</i>	
Optimal Superimposed Training Design for Mobile OFDM Systems Under Colored Noise.....	1506
<i>H. Zhang, X. Dai</i>	
Weighted Maximum-Likelihood Source Localization for Wideband Signals in the Near-Field.....	1511
<i>T. Niu, Y. Yang</i>	
Uplink Performance of Multiband Complex Wavelet Based Multicarrier DS-CDMA System in Fading Channel.....	1515
<i>X. Yu, T. Zhou, Y. Li</i>	
Probabilistic Path Selection in Wireless Sensor Networks with Controlled Mobility	1520
<i>X. Zhang, L. Zhang, G. Chen, X. Zou</i>	
Convergence of Distributed Power Control with Full-Duplex Amplify-and-Forward Relays	1525
<i>Y. K. Song, D. Kim</i>	
Interactive Object Segmentation Using Kernel Density Estimation Based Graph Cuts.....	1530
<i>Z. Han, B. Ding, Z. Liu, L. Shen, Z. Zhang</i>	
Analyzing and Improving the TCP Flow Fairness in 802.11 Based Ad Hoc Networks	1535
<i>L. Yang, X. F. Zhang, Y. S. Liu</i>	
Improved Speech Source Localization in Reverberant Environments Based on Correlation Dimension.....	1540
<i>X. Wan, Z. Wu</i>	
Quick Sensing and Spectrum Sharing Strategy for Frequency Hopping Signal in ISM Band	1544
<i>N. Bao, L. Shen</i>	
Effects of Feedback Strategies on Performances of Opportunistic Amplify-and-Forward Relaying.....	1549
<i>J. B. Kim, D. Kim</i>	

Design of Bit-Stream Neuron Based on Direct Σ-Δ Signal Process	1554
<i>Y. Liang, Q. Meng, Z. G. Wang, X. D. Guo</i>	
Distributed STF Coding for C-OFDM Systems	1557
<i>X. Xu, Z. Song, W. Yang, H. Wu, X. Liu</i>	
Analysis of Hidden Terminal Effect on a CSMA/CA Network Under Fading Environment	1562
<i>J. Dai, Y. Yamao</i>	
A New Access Algorithm for PCF Modes in Wireless LANs	1567
<i>S. Liao, W. Cheng</i>	
Channel Assignment Strategies of IEEE 802.11 WLAN in a Shared Public Hotspot Environment	1571
<i>S. Srilask, K. Wongthavarawat, K. Limmongkol, S. Siwamogsathan</i>	
Fast and Robust Video Foreground Segmentation for Indoor Surveillance	1576
<i>S. Z. Lv, X. P. Wang, L. J. Zhang</i>	
Optimized Resource Allocation of HSDPA Using Two Group Allocation in Frequency Selective Channel	1580
<i>Z. He, M. Gurcan</i>	
Network Code Design for Orthogonal Multi-User Channel with Broadcasting Relay: A Joint Source Channel Network Coding Approach	1585
<i>R. Joda, F. Lahouti</i>	
An Intelligent Classifier for Cardiac Arrhythmias Recognition	1590
<i>I. Moazzen, M. R. Ahmadzadeh, A. M. Doost-Hoseini, M. J. Omid</i>	
DOA Estimation of Ultra Wideband Signals Using Multiple Constant Beamwidth Beamformers	1595
<i>H. Jiang, Z. J. Li, D. Liu</i>	
A Method for Angle Estimation Using Pulse Width of Target Echo	1600
<i>L. Weihong, Z. Yongshun, Z. Guo, L. Hongbin</i>	
Compression of a Markov Source with Side Information at the Decoder Using Turbo Codes	1605
<i>B. Asadi, F. Lahouti, M. Valipour</i>	
FSLC Equalization Receiver for IR-UWB System in Indoor Environment	1610
<i>Z. Liu, Q. Zhang, N. Zhang</i>	
Energy Efficiency of Collaborative Communication with Imperfect Phase Synchronization and Rayleigh Fading in Wireless Sensor Networks	1614
<i>H. Naqvi, S. Berber, Z. Salcic, S. Fang</i>	
Low Complexity Beamforming Algorithm for Multiuser MIMO Systems	1619
<i>K. Yi, W. Li, Y. Sun, D. Zhu</i>	
Stable Distribution Based Analysis of Transmission Capacities for Overlaid Wireless Networks	1624
<i>C. Yin, C. Chen, S. Cui</i>	
Robust and Distributed Beamforming	1629
<i>G. Zheng, K. K. Wong, A. Paulraj, B. Ottersten</i>	
Transmit Precoding for MIMO Relay Systems with Partial CSI Under Correlated Fading	1634
<i>C. K. Wen, K. K. Wong, C. T. K. Ng</i>	
Non-Linear Network Coding in Two-Way Relaying Discrete Channels	1639
<i>T. Koike-Akino, P. Larsson, P. Popovski, V. Tarokh</i>	
On the Principles of Multicell Precoding with Centralized and Distributed Cooperation	1644
<i>E. Bjornson, B. Ottersten</i>	
Secrecy Extraction from Correlated Fading Channels: An Upper Bound	1649
<i>X. Wu, Y. Song, C. Zhao, X. You</i>	
A Relay Selection Scheme for Two-Way Amplify-and-Forward Relay Networks	1652
<i>Y. Jing</i>	
Reliable Amplify-and-Forward Two-Way Relay Networks	1657
<i>H. Q. Ngo, T. Q. S. Quek, H. Shin</i>	
Cooperative Relays for an Underlay Cognitive Radio Network	1662
<i>R. Krishna, K. Cumanan, Z. Xiong, S. Lambotharan</i>	
Limited Feedback Precoding for Distributed Space-Time Coding in Wireless Relay Networks	1666
<i>S. Ganesan, W. Liu, M. Sellathurai</i>	
Multiple Description Coding For Binary Sources	1671
<i>S. Dumitrescu, J. Chen, Y. Zhang</i>	
An Achievable Rate Region for the 2-Receiver Broadcast Channel Obtained by Viewing it as an Interference Channel	1676
<i>C. Nair</i>	
Author Index	