

2007 International Conference on Communications, Circuits and Systems

**Kokura, Japan
11-13 July 2007**

Volume 1 of 3



IEEE Catalog Number:
ISBN 10:
ISBN 13:

CFP07807-PRT
1-4244-1473-3
978-1-4244-1473-4

Table of Contents

A Novel Blind Channel Estimation Method for MIMO System	1
<i>Yanming Xiong, Ming Wei, Yu Gong, Yuehuan Gong</i>	
Shaping Gain of LDPC Coded-QAM Transmitting Systems with Non-Uniform Constellation.....	6
<i>Minhan Zheng, Lin Wang, Yuliang Tang</i>	
Design and Simulation of Punctured Woven Convolutional Codes	10
<i>Yingxin Yu, Lin Wang, Qinfang Wei</i>	
Efficient Encoding of Low-Density Parity-Check Codes in Chinese Digital Terrestrial Television Broadcasting Standard.....	14
<i>Jingli Lin, Longjiang Jing, Weile Zhu, Jijun Zheng</i>	
LDPC Coded Bit Interleaved Orthogonal Modulation with Non-Coherent Detection.....	19
<i>Shuling Che, Jianzhong Huang, Baoming Bai, Xinmei Wang</i>	
Multi-Rate LDPC Decoder Implementation for China Digital Television Terrestrial Broadcasting Standard	24
<i>Dimin Niu, Kewu Peng, Jian Song, Changyong Pan, Zhixing Yang</i>	
Reliability-Based Data-Puncturing Hybrid ARQ Scheme with LDPC Codes.....	29
<i>Xiaoheng Chen, Xiangdong Jin</i>	
Another Derivation Process of Belief Propagation Algorithm.....	34
<i>Jingli Lin, Longjiang Jing, Weile Zhu, Jijun Zheng</i>	
Superposition Convolutional Coded Modulation for the Rayleigh Fading Channel	37
<i>Xu Chen, Xiuni Wang, Xiao Ma</i>	
An Efficient PAPR Reduction Method in MIMO-OFDM Systems by jointly Frequency-Block Operations.....	42
<i>Haiyang Huang, Shaoqian Li</i>	
An New Dynamic Framed Slotted ALOHA Algorithm for RFID	47
<i>Fei Zhou, Hongyu Zhang</i>	
Partial Generalized Synchronization Theorem of Discrete Systems with Applications in Encryption Scheme	51
<i>Jianyi Jing, Lequan Min, Geng Zhao</i>	
Modelling and Simulation of Digital Channelized Receiver Based on IDFT Poly-phase Filter Architecture.....	56
<i>Nie Sai-Lan, Chen Ji-Zhong, Jia Chao-Wen</i>	
A Dynamic Channel Estimation in MIMO Communication System	60
<i>Wang Yi, Guo Wei</i>	
Joint Cooperation Diversity and Symbol Mapping	65
<i>Ji Wei, Zheng Bao-Yu, Cui Jing-Wu</i>	
Rotational-Invariance Code Design for the System of TCM_CPM	70
<i>Xujing Minjian Zhao</i>	
Design of LDPC Coded Recursive MSK Systems	75
<i>Jianzhong Huang, Shuling Che, Baoming Bai, Xinmei Wang</i>	
Reliability-Based Subpacket Transmission for Hybrid ARQ with LDPC Codes	80
<i>Jia Minli, He Zunwen, Kuang Jingming, Fei Zesong</i>	
Adaptive Mobile Localization Algorithm for Non-Lineof- Sight(NLOS) Environments	85
<i>J.Y. Huang, Q. Wan, W.L. Yang</i>	
Design of PLL For TD-SCDMA System	88
<i>Liu Mei-Rui, He Song-Bai</i>	
Key Laboratory of Information Processing and Intelligent Technology	92
<i>Ning Wang, Xuehong Lin, Junyi Wang, Gang Yang, Jiaru Lin</i>	

Table of Contents

Amplify-and-forward with Network Coding in Two Kinds of Rayleigh Fading Channels.....	95
<i>Ning Wei, Zhongpei Zhang, Shaoqian Li</i>	
Estimation of Doppler-Shift Based on Correlation-Peak Waveform.....	99
<i>Yao Tingyan, Zhao Weigang, Zhang Qishan, Kou Yanhong</i>	
An Improved Analog AGC for TD-SCDMA Receiver	103
<i>Liao Ji-Chang, He Song-Bai</i>	
New Beamforming Method Based on Radial basis Function Neural Network Processing in S ±SG Distribution Noise Environments.....	107
<i>Daifeng Zha</i>	
Optimization of Polyphase Code Based on Ambiguity Function for MIMO Radar.....	111
<i>Bo Liu, Zishu He, Jiankui Zeng</i>	
Capacity and Performance of MIMO-BICM System With Soft-output MMSE OSIC Detector	115
<i>Jun Wang, Shaoqian Li</i>	
Transmission Adaptation for MIMO System.....	120
<i>Jiang Yu, Yong Teng, Guangxin Yue</i>	
Analysis for MIMO Correlated Frequency-Selective Channel in the Presence of Interference.....	125
<i>Hailin Xiao, Zaiping Nie</i>	
An Improved 2-D ESPRIT Method for Joint DOA - Delay Estimation.....	129
<i>Bin Qian, Wanlin Yang , Qun Wan</i>	
Impact of Relay Location to SER Performance with Different Power Allocation Methods in Cooperative System.....	133
<i>Fei Lin, Hai Huang, Tao Luo, Guangxin Yue</i>	
A 5.8-GHz Omnidirectional Horizontal Radiation Pattern Antenna for Wireless Communication System.....	138
<i>Dakui Wu, Minghua Zhao, Yong Fan, Yonghong Zhang</i>	
A NBI Suppression Approach Based on Space- Domain DBF Processing for Wideband MIMO System.....	141
<i>Guocai Li, Yaohuan Gong</i>	
A Multi-user Multi-beam Selection Scheme based on Orthonormal Random Beamforming for MIMO Downlink System	145
<i>Feng Han, Ying-Zhuang Liu, Guang-Xi Zhu, Jun Sun</i>	
Partner Choice Based on Beam Search in Wireless Cooperative Networks.....	150
<i>Zhigang Wen, Tao Luo, Guangxin Yue</i>	
A Closed-Loop STTD Scheme using Limited Feedback Unitary Precoding for MIMO-OFDM-OSTBC System.....	155
<i>Jie Wang, Zhonghao Zhang, Shaoqian Li, Yuehuan Gong</i>	
Resonating Photoconductive Microwave Switches for Reconfigurable Antenna System.....	159
<i>De-Shuang Zhao, Peng-Ju Liu, Bing-Zhong Wang</i>	
Joint Power Distribution Algorithm for Multi-User Downlink of JT MIMO System.....	163
<i>Gong Yi, Xie Xian-Zhong</i>	
A Nested Multistage Adaptive Beamformer for Wireless Communications	168
<i>Ning Xie</i>	
Performance Analysis of MIMO JT Schemes Based on Energy Efficiency.....	172
<i>Yang Liu, Xie Xian-Zhong, Luo Xin-Bo</i>	
Joint Beamforming with Space-Time Block Coding for Multi-Antenna Communications	176
<i>Min Lin, Min Li, Luxi Yang</i>	

Table of Contents

Adaptive Modulation in MIMO System under Power and QoS Constraints	180
<i>Jie Hu, Xianzhong Xie, Shuangping Huang</i>	
Iterative Detection for Differential Decode-and-forward Cooperative Communication	184
<i>Ning Wei, Weixin Liu, Zhongpei Zhang, Shaoqian Li</i>	
SNR Mismatch and Robust Schemes in MAP-based Iterative Detection System with CPM	188
<i>Li Qiang, Shaoqian Li</i>	
Modulation Classification in Alpha-Stable Noise	193
<i>He Tao, Zhou Zheng, Ou</i>	
A Tracking algorithm for OFDM timing synchronization Using Particle Filtering	197
<i>Hai Huang, Fei Lin, Changchuan Yin</i>	
A Semi-blind Reception Scheme Based on ICA for Multiuser MIMO-STBC System	202
<i>Zhonghao Zhang, Yu Gong, Shaoqian Li, Yuehuan Gong</i>	
EM-Based Estimation of Doubly Selective Channel with a Basis Expansion Model	207
<i>Feng Yang, Jian Song, Changyong Pan, Zhixing Yang</i>	
A Joint Channel Estimation and Detection Algorithm for OFDM Systems with Short Cyclic Prefix	212
<i>Binfeng Bai, Mingyue Wang, Yueming Cai</i>	
An New OSIC Detection Scheme for V-BLAST Systems with QAM Modulation	217
<i>Huajiong Lin, Youxi Tang, Shihai Shao</i>	
Frequency Synchronization in Distributed MIMO Systems	222
<i>Kai Deng, Youxi Tang, Shaoqian Li</i>	
A New Blind Equalization Algorithm Based on Convex Combination	227
<i>Chunbo Luo, Yuehuan Gong, Yu Gong, Shaoqian Li</i>	
Pilot-aided CFO Estimation in Clipped OFDM System	231
<i>Xiao Yue, Xia Lei, Shaoqian Li</i>	
An Improved Method for OFDM Carrier Frequency Offset Estimation	235
<i>Jijun Zheng, Weile Zhu</i>	
Power Constrained Optimization for Two-hop Amplify-and-Foward MIMO Relay System	239
<i>Ying Wang, Xiaodong Shen, Baoling Liu, Ping Zhang</i>	
An Intercarrier Interference Mitigation Technique with SSC and ASF in OFDM Systems	244
<i>Li Zhao, Ruochun Li, Ping Zhang</i>	
Paging Scheme under Delay Bounds for LEO Networks	249
<i>Zhang Xu, Zhu Li-Dong, Wu Shi-Qi</i>	
Improved Minimal-Hops Handover Strategy of LEO Satellite Constellation System	253
<i>Li You, Zhu Li-Dong</i>	
A Pointer Forwarding and Regional Registration Based Dynamic Location Management for LEO Satellite Networks	258
<i>Li Li-Ming, Zhu Li-Dong</i>	
Analysis of the Effect of Intercarrier-Interference for Mobile MASK-OFDM Systems	263
<i>Wen Qin, Qicong Peng</i>	
Research and Design about New Transmission Mode of GPRS with Multi Peer-to-Peer	267
<i>Chaobo Yang, Ming Qi</i>	
A User-wise PAPR Reduction Scheme with Reduced Complexity in MC-CDMA System	271
<i>Lilin Danl, Yue Xiao, Qingsong Wen, Shaoqian.Li</i>	
A Novel Blind Detection Technique for MSR-OFDM System	276
<i>Xiao Yue, Xia Lei, Shaoqian Li</i>	

Table of Contents

LC-APTS for PAPR Reduction in OFDM Systems	280
<i>Qingsong Wen, Yue Xiao, Shaoqian Li</i>	
Optimized Phase Sequence Set for SLM-OFDM	284
<i>Peng Cheng, Yue Xiao, Lilin Dan, Shaoqian Li</i>	
A New Way to Reduce ICI of OFDM System with Precoding	288
<i>Jiang Lin-Lin, Xie Xian-Zhong</i>	
A Novel Position Code Parallel Combinatory Spread Spectrum Communication System	292
<i>Li Bei-Ming, Guo Li-Li</i>	
Effectiveness of Tone-Reservation using Null Subcarriers (TR-NS) in WiMAX Systems	296
<i>Gang Wu, Su Hu, Shao-Qian Li, Yong Liang Guan, Choi Look Law</i>	
ANC-Based TOA Estimation with Lower Sampling Rates for UWB Systems	301
<i>Fan Li, Shouyin Liu, Yeong-Sam Kim, Jong-Wha Chong</i>	
Diversity Set Update Algorithm for MDHO in Cellular Fixed Relay Networks	306
<i>Han Jing, Wang Junyi, Feng Shaopeng, Wu Weiling</i>	
Ultra Wide Band System Based on Cognitive Radio	311
<i>Runfang Hao, Jumin Zhao, Huakui Wang</i>	
Sensing Schemes for DVB-T in Cognitive Radio Context	314
<i>Lei Chen, Qihang Peng, Jun Wang, Shaoqian Li</i>	
An Integration of Polyphase Filter and Polyphase Mixer Architecture for High-speed DDC	319
<i>Liu Qing, Peng Hong</i>	
Joint Link Scheduling and Power Control for Multichannel Multihop Cognitive radio Networks	323
<i>Hao He, Jie Chen, Chulin Liao, Shaoqian Li</i>	
An Accurate Energy Model for WSN Node and Its Optimal Design	328
<i>Baoqiang Kan, Li Cai, Lei Zhao</i>	
A Pseudo Gossip Routing Algorithm in Mobile Ad Hoc Networks	333
<i>Xiao Bailong, Guo Wei, Liu Jun, Zhu Silu</i>	
Performance Investigation of M/G/1/K-based IEEE802.11e EDCA under Non-Saturation and Saturation Conditions	338
<i>Bai Xiang, Mao Yu-Ming, Sun Xiang</i>	
Joint Congestion and Medium Access Control in Cooperative Vehicular Ad-Hoc Networks	345
<i>Liang Zhou, Baoyu Zheng</i>	
MTIM for IEEE 802.11 DCF Power Saving Mode	350
<i>Pengbo Si, Hong Ji, Guangxin Yue, Jingya Zhang</i>	
Utility-based Stochastic Fictitious Play and Wireless Medium Access Control Design	355
<i>Wenyuan Liu, Haiqiang Wang, Huixian Liu, Hongli Zhang Chengnian Long, Xinping Guan</i>	
An Enhanced Hybrid ARQ Technique Employing Signal Constellation Rearrangement with 64QAM	360
<i>Jia Minli, He Zunwen, Kuang Jingming, Fei Zesong</i>	
A New Cluster Head Assignment Algorithm for Low Energy Clustering Communication Protocols in Wireless Sensor Network	365
<i>Chi-Chou Kao, Chia-Nan Yeh, Yen-Tai Lai, Tang-Wei Liao</i>	
Designing High-E ciency Class-E LDMOS Power Amplifier	369
<i>He Songbai, Wang Huadong, You Fei, Liao Jichang, Liu Meirui</i>	
A Distributed QoS Multicast Routing Algorithm Based on Ant Algorithm for LEO Satellite Networks	373
<i>Xu Hui, Huang Fei, Wu Shi-Qi</i>	

Table of Contents

Effect of Reference Point on Performance of Multidimensional Scaling Algorithm for Localization in	378
<i>Song Yu-Mei, Wan Qun, Jiang Bin, Wang Wei</i>	
A Novel Mobility Model with Abrupt Event Influence to the System Performance of Mobile Cellular Networks	383
<i>Yide Zhang, Gang Feng, Lemin Li</i>	
Aggregated Self-Similar Wireless Traffic Properties Analyses Based on Sup-FRPP Model	388
<i>Qin Yu, Yuming Mao</i>	
A Triple-controlled DDS-based PLL for 3 to 4 GHz Frequency Synthesis	392
<i>Liu Qing, Cheng Xu</i>	
Kriging Estimator for Mobile Station Positioning under Non-Line-of-Sight (NLOS) Conditions	396
<i>J.Y. Huang, Z.X. Chen, Q. Wan, W.L. Yang</i>	
A Routing Agent Based on Wireless Sensor Networks	399
<i>Yang Yun, Tao Bi-Lei</i>	
An Ant-like Agent Based Data Aggregation Routing Scheme in Wireless Sensor Networks	404
<i>Ye Ningp, Shao Jiep, Wang Ru-Chuan, Wang Zhi-Li</i>	
Cross-layer Energy Efficient Clustering for Heterogeneous Wireless Sensor Networks with Renewable Energy Sources	409
<i>Ying Zhang, Wenyong Wang, Yu Xiang, Dan Liao</i>	
A Grid-based Clustering Method for Large-Scale Wireless Sensor Networks	414
<i>Bin Yan, Xiaojiao Zhou, Houjun Wang, Benliang Li</i>	
An Efficient Secure Tracking Scheme in Wireless Sensor Network	419
<i>Jiahao Wang, Zhiguang Qin, Yang Zhao, Xinxin Ma, Fengli Zhang</i>	
An Active Index Diffusion Scheme for Multilayer Unstructured Peer-to-Peer Networks	424
<i>Shang-Feng Chiang, Chun-Hung Wu, Sheng-De Wang</i>	
A Novel Transfer Protocol for Reputation Sharing on P2P Networks	431
<i>Ma Xin-Xin, Qin Zhi-Guang</i>	
Research of Changeable SBox Cryptosystem Based on Chaos	436
<i>Geng Zhao, Hui Yan, Fangfang Lu</i>	
Identity-Based Intrusion-Resilient Signature	442
<i>Hongwei Li, Shixin Sun</i>	
A Write-in Electronic Voting scheme Based on Ring Signature	447
<i>Yong Yang, Zhiguang Qin, Hu Xiong, Yang Zhao, Tian Lan</i>	
A Gradual and Optimistic Fair Exchange Protocol	452
<i>Tian Lan, Zhiguang Qin, Yang Zhao, Hu Xiong, Li Liu</i>	
Detecting the DDoS Attacks Based on SYN proxy and Hop-Count Filter	457
<i>Fengli Zhang, Ji Geng, Zhiguang Qin, Mingtian Zhou</i>	
Global Detection of DDoS Attack Based on Time and Frequency Analysis	462
<i>Luo Hua, Hu Guang-Min, Yao Xing-Miao</i>	
Multi-party Fair Exchange Protocol with an Off-line Semi-Trust Third Party	467
<i>Yang Zhao, Zhiguang Qin, Tian Lan, Hu Xiong, Fengli Zhang</i>	
Improved Fingerprint-based Remote User Authentication Scheme Using Smart Cards	472
<i>Hong-Wei Sun, Kwok-Yan Lam, Ming Gu, Jia-Guang Sun</i>	
Iris-based Remote User Authentication Scheme Using Smart Cards	476
<i>Hong-Wei Sun, Kwok-Yan Lam, Ming Gu, Jia-Guang Sun</i>	

Table of Contents

A Sealed-bid Electronic Auction Protocol Based on Ring Signature	480
<i>Hu Xiong, Zhiguang Qin, Fengli Zhang, Yong Yang, Yang Zhao</i>	
Password Authenticated Key Agreement with Smart Cards for Remote Systems	484
<i>Tang Anyang, Xu Chunxiang</i>	
CERNET2 Super-scale Dynamic Multicast Network-based Security System Framework Principles.....	488
<i>Jin Jing, Qin Zhiguang, Ye Li</i>	
Research on Spam Filtering Technology Using Support Vector Machine	492
<i>Zheng Mei, Geng Ji, Li Xiao, Liu Qiao</i>	
A Scheme to Construct Scalable Packet Switching Fabrics of Torus Topology.....	496
<i>Hong Wang, Du Xu, Dan Liao, Lemin Li</i>	
MMAR:A Deadlock Recovery-Based Fault Tolerant Routing Algorithm for Mesh/Torus Networks.....	501
<i>Lei Song, Du Xu, G Uo Jiang, Qing Yao</i>	
Bandwidth and Fairness Policy Analysis of Register Insertion Ring	506
<i>Mingsong Chen, Shengyuan Zhou, Faliang Ao</i>	
Metrics Transform Based Multi-constrained Optimal Path Selection.....	510
<i>Yu Wang, Lemin Li, Du Xu</i>	
PiFF: A Formal Framework for Dynamic Service Composition.....	515
<i>Tan Hao, Liu Jin-De, Liao Jun</i>	
Study of IRP for Windows Driver Model	521
<i>Jinglv Zhou, Hongyu Zhang</i>	
Comparisons Between Different Concatenated Codes Impact on Performance of Optical CDMA.....	525
<i>Chongfu Zhang, Kun Qiu</i>	
Research of a Novel Management Method in Ethernet Passive Optical Network	530
<i>Cheng Chuanqing, Wang Li</i>	
Time-Spreading and Wavelength-Group-Hopping Codes Implemented over Fiber-to-the-Home Networks.....	534
<i>Yao-Tang Chang, Jen-Fa Huang, Kai-Chun Hsu, Li-Wei Chou</i>	
Periodically Adapted Burst Assembly Algorithm Based on Novel Traffic Prediction in OBS Networks.....	539
<i>Qian Zhou, Lemin Li, Sheng Wang, Shizhong Xu, Yi Zhang</i>	
A New Consideration for Provisioning Survivable Multicast Sessions in WDM Mesh Networks.....	544
<i>Hongbin Luo, Lemin Li</i>	
Robust Solution for Splitter Placement in All-Optical WDM Networks	549
<i>Junyan Li, Sheng Wang, Xiong Wang</i>	
Development of a Lumped Constant Type Optical Modulator in the Microwave Band for Digital Terrestrial TV Broadcasting.....	554
<i>Kazuhisa Haeiwa, Yoshikazu Toba</i>	
A Study of Far-End Crosstalk Cancellation Architecture For 10GBASE-T.....	558
<i>Ying-Ren Chien, Hen-Wai Tsao</i>	
A Unified Model for the 1/f Noise Induced by Threading Dislocation in Strained-Si pMOSFETs	563
<i>Hong-Dong Yang, Jing-Chun Li, Mo-Hua Yang</i>	
Numerical Model of Integrated Optical Electric Field Sensor with Segmented Electrodes.....	566
<i>Sun Bao, Chen Fushen, Yang Yongjun</i>	
An Insertion Mode Scheduler for Improving QoS of Real-time Services.....	569
<i>Xiaodong Tu, Jian Li, Jun Xie, Xiaohong Li, Xiaoyang Wang</i>	
Method of Improving the Yield of Corrugated Fiber Gratings Fabrication	571
<i>Ping-Chung Lin, Lon A. Wang</i>	

Table of Contents

The Design of Constant Current Source of High-power Semiconductor Laser Diode Based on ADuC812	574
<i>Xianming Xiong, Ying Huang, Fangrong Hu</i>	
Multicast Routing in WDM Networks with Sparse Light Splitting	578
<i>Xiong Wang, Sheng Wang, Lemin Li, Yun Chuan</i>	
A Layered Segmentation Algorithm Of Fingerprint	583
<i>Jingjing Gao, Mei Xie</i>	
A New Image Watermarking Algorithm Using BEMD Method	588
<i>Wei Huang, Yanzheng Sun</i>	
A High Robust Video Digital Watermark Algorithm Based on Embedding and Extracting in Random Frames	593
<i>Xiaoshi Zheng, Yanling Zhao, Na Li, Guangqi Liu, Qingxi Wang</i>	
Dual Digital Watermarking Used in Product Casing	598
<i>Jing Liu, Hongyu Zhang</i>	
UEP Schemes for Multimedia Transmission in Space-Time Coded Systems	602
<i>Changcai Han, Weiling Wu</i>	
A Novel Speaker Change Detection Algorithm	607
<i>Xiaoqing Yu, Haiying Tan, Wanggen Wan</i>	
A Novel Content-based Rate Control Algorithm for H.264	611
<i>Chengwei Yu, Jianhua Lu, Xudong Xie, Junli Zheng</i>	
The Algorithm of Iris Image Quality Evaluation	616
<i>Lili Pan, Mei Xie</i>	
Distributed Arithmetic for FIR Filter Design on FPGA	620
<i>Wang Sen, Tang Bin, Zhu Jun</i>	
Evaluation of Several FIR Fractional Delay Filters in Element-Interpolation DPCA	624
<i>Jiang Chaoshu, Chen Zhuming</i>	
A Novel Wavelet Transform Modulus Maxima Based Method of Measuring Lipschitz Exponent	628
<i>Lian Ke, Wang Houjun</i>	
Design of Perfect Reconstruction Cosine Modulated Filter Banks with Linear Phase	633
<i>Binlu Liu, Zijing Zhang, Zhiwei Deng</i>	
A Generalized Sidelobe Canceller Architecture for Reduced-rank BeamSpace Post-Doppler STAP	637
<i>Bin Tang, Xuegang Wang</i>	
Adaptive Space-time-waveform Processing for MIMO Radar	641
<i>Zengjiankui Hezishu Liubo</i>	
Noise-Linear Frequency Modulation Shared Waveform for Integrated Radar and Jammer System	644
<i>Xinxiang Zhang, Tianqi Chen</i>	
Diagonal Loading Techniques to Relax Sample Support Requirement in Airborne Bistatic STAP	649
<i>Rui Duan, Xuegang Wang, Chaoshu Jiang, Zhuming Chen</i>	
A Robust Method for Censoring the Interference-targets	653
<i>Cao Jian-Shu, Wang Xue-Gang</i>	
Motive Parameters Estimation Using Narrow-band Passive Acoustical Measurements	658
<i>Tao Wang, Qun Wan</i>	
Acoustic Localization in Multi-path Aware Environments	663
<i>Wang Yan, Wan Qun, Bai Danping, Jiang Jin</i>	
Detection of Dim Trajectory Based on Multiscale	667
<i>Zhou Ning, Zai-Ming Li</i>	

Table of Contents

A Blind Separation Method for Noisy Mixed Chaotic Signals and Its Applications	671
<i>Xuexia Li, Jiuchao Feng</i>	
A Robust Character Segmentation Approach for License Plate	675
<i>Feng Yang, Zheng Ma, Mei Xie</i>	
Direction of Arrival Estimation Based on Spatial Signature with Unknown Sensor Gain and Phase	680
<i>Xianning Chen, Qun Wan, Wanlin Yang</i>	
A Propagation-Control Condensation Tracker with Color Histogram Matching	684
<i>Geng Lei, Xiaojuan Wu, Yuanyuan Zhang</i>	
The Study of Weak Signal Detection Based on Chaotic Oscillator	689
<i>Yanchun Xu, Chunling Yang, Yanchun Xu</i>	
Automatic Modulation Recognition of Digital Communication Signals Using Statistical Parameters	
Methods	693
<i>Juan-Ping Wu, Ying-Zheng Han, Jin-Mei Zhang, Hua-Kui Wang, Shu-Ping Reng</i>	
A New Independent Distributed Sources Model and DOA Estimator	697
<i>Li Qiang, Li Zhishun</i>	
Blind Estimation of Long PN Code Sequence	701
<i>Zhou Yong, Lü Ming, Tang Bin</i>	
A New Method for Estimating the Bandwidth using Two-Channel Narrowband Signals with Strong Interference	705
<i>Jiang Jin, Wan Qun, Wang Yan, Bai Danping</i>	
Fast DOA Tracking of Multiple Scattering Sources Based on Subspace Updating	709
<i>Guo Xiansheng, Wan Qun, Huang Anmin, Bai Danping</i>	
Cluster Sorting of Radar Signals Using Intra-pulse Feature	714
<i>Song Yunzhao, Wan Qun, Liu Gang</i>	
Mobile Station Location using Survey Points Based on LS-SVM	718
<i>Wang Wei, Huang Jiyan, Wan Qun</i>	
Direct Sequence Spread Spectrum Signal Detection Based on Chaos Theory	723
<i>Xiong Gang, Lü Ming, Tang Bin</i>	
A New Method for 3-Order Polynomial Phase Signal Parameter Estimation	727
<i>Yingxiang Li, Zhiheng Hu, Xianci Xiao</i>	
Video Objects Abstraction Based on the Spatio-Temporal Characteristic in Motion Window	731
<i>Chen Jian</i>	
Parameter Equation Based Optical Flow Estimation	736
<i>Xian Haiying, Li Zaiming</i>	
A Novel Adjustable Remote Sensing Image Fusion Technique Using IHS Transform	741
<i>Heng Chu, Weile Zhu</i>	
Automatic Segmentation of Moving Objects in Video Sequences Based on Spatio-Temporal Information	746
<i>Mao Ling, Xie Mei</i>	
Target Image Mosaic Algorithm Based on Interest Points Matching	751
<i>Lingjia Gu, Shuxu Guo, Ruizhi Ren, Shuang Zhang</i>	
Iris Recogniton Based on Fearure Extraction in Kernel Space	756
<i>Shuai Shao, Mei Xie</i>	
An Improved Particle Filter Algorithm Based on Neural Network for Visual Tracking	761
<i>Wen Qin, Qicong Peng</i>	

Table of Contents

Nonnegative Matrix Factorization for Independent Component Analysis.....	765
<i>Shangming Yang, Zhang Yi</i>	
An Orientation Independent Texture Descriptor for Image Retrieval.....	768
<i>Chao-Bing Huang,Quan Liu</i>	
A New Block-edge-pattern and High Efficient Image Retrieval Method in DCT Domain	773
<i>Chen Jian, Yang Ming, J. Jiang</i>	
Two-Steps Cross-Diamond Fast Search Algorithm on Motion Estimation in H.264.....	778
<i>Qin Liu, Seiichiro Hiratsuka, Satoshi Goto, Takeshi Ikenaga</i>	
Adaptive Edge Detection Pre-Process Multiple Reference Frames Motion Estimation in H.264/AVC.....	783
<i>Yiqing Huang, Zhenyu Liu, Satoshi Goto, Takeshi Ikenaga</i>	
A New Speech Source Locating System Using Orthocenter Locating Algorithm.....	788
<i>Yu Wu, Ming Lv</i>	
Boundary Extraction of Moving Object Based on Spatio-Temporal Information	792
<i>Mao Ling, Xie Mei, Li Jia</i>	
Study on the Dual Camera Photogrammetry and Signal Process in Photoelectric Landing Guidance System.....	796
<i>Yang Cheng,Zhu Da-Yong,Zhang Jin,Huang Bin</i>	
Speech Emotion Recognition in Web based Service	800
<i>Huang Huiqin, Luo Qi, Zhu Aiqin</i>	
Fast Algorithm of Detecting Circular Edge Based on MultiresolutionWavelet Transform.....	803
<i>Yuchengpu Xiemei</i>	
Fractal Image Coding Based on High Order Spectrum Using Nonparametric Estimation.....	808
<i>Zhenming Peng, Tao Chen, Shengjun Tian, Heping Zhao, Fanbin Meng</i>	
Design of the High-powered Clutter Suppression System Based on ADSP-TS203.....	812
<i>Yingxi Zheng, Zhulin Zong</i>	
Real-time H.264/AVC Decoder Implementation on PXA270	815
<i>Ye Xien, Zhou Haiyong,Tao Weijiong</i>	
An Approximated Analytical Solution for Two- Dimensional Spectrum of Spaceborne/Airborne Hybrid Bistatic SAR	818
<i>Liu Zhe, Yang Jian-Yu, Zhang Xiao-Ling, Pi Yi-Ming</i>	
LCMV Beamforming Algorithm Based on the Fractional Fourier Transform	822
<i>Wu Haizhou,Tao Ran</i>	
Design and Realization of NCO of Modulation Based on FPGA.....	827
<i>Hejin, He Songbai</i>	
Improvement on Realization Structure of Block Matching Algorithm and its Performance Verification.....	830
<i>Yan Xue Long, Yu Jun</i>	
Automatic Segmentation of Brain CT Image Based on Multiplicate Features and Decision Tree.....	833
<i>Yongjie Hu, Mei Xie</i>	
A New Method for Processing End Effect In Empirical Mode Decomposition.....	837
<i>Zhao Zhidong, Wang Yang</i>	
Neural Conjoined Polynomial's Structure Adaptive Equalizer	842
<i>Haiquan Zhao, Jiashu Zhang</i>	
A New Blind Equalization Scheme for QAM Systems Based on Fractionally-Spaced Equalizer	846
<i>Liu Shun-Lan, Dai Ming-Zeng</i>	

Table of Contents

Bistatic SAR Imaging Based on Range-Doppler Algorithm Without Interpolation.....	850
<i>Zhang Nai, Shen Xiao-Feng, Wan Qun, Yang Wan-Lin</i>	
Mining Co-regulated Genes Using Association Rules Combined with Hash-tree and Genetic Algorithms	854
<i>Fengjun Han, Nini Rao</i>	
The Influence of Random motion Errors on Bistatic SAR Resolution	859
<i>Ling Kuang, Qun Wan, Wan-Lin Yang</i>	
Geometry and System Aspects of Spaceborne/Airborne Hybrid Bistatic SAR.....	863
<i>Zhou Peng, Pi Yiming, Zhou Peng</i>	
A Robust Extraction Algorithm Based on ICA Neural Network	868
<i>Yalan Ye, Zhi-Lin Zhang, Quanyi Mo, Jiazhi Zeng</i>	
Two Theorems on the Robust Designs for Dilation and Erosion CNNs.....	873
<i>Shu Jian, Bing Zhao, Lequan Min</i>	
Design and Implementation of an Optimization System of Spam Filter Rule Based On Neural Network.....	878
<i>Ce Zhan, Fengli Zhang, Mei Zheng</i>	
A Sensorless Drive Method for Switched Reluctance Motor Based on Fuzzy Logic	883
<i>Wang Wei, Yin Shao-Hong, Zhang Da-Peng, Su Lan-Xin</i>	
An LMI-based Fuzzy Control Method of Chaotic Systems	887
<i>Yongbin Yu, Qishui Zhong, Kang Li, Juebang Yu, Xiaofeng Liao</i>	
A kind of Strategy Based on Adaptive Fuzzy Control and its Application to Aero Engine Turbine Power	892
<i>Zheng Hong, Hongbin Xu</i>	
A Genetic Scheduling Algorithm Based on Knowledge for Multiprocessor System.....	896
<i>Lan Zhou, Sun Shi-Xin</i>	
Minining Intrusion Detection Alarms with an SA-based Clustering Approach	901
<i>Jianxin Wang, Yunqing Xia, Hongzhou Wang</i>	
A Hybrid Artificial Immune Network with Swarm Learning	906
<i>Jian Fu, Zhonghua Li, Hong-Zhou Tan</i>	
Research in the Performance Assessment of Multiobjective Optimization Evolutionary Algorithms.....	911
<i>Guoqiang Deng, Zhangcan Huang, Min Tang</i>	
A Dynamic Immune Algorithm with Immune Network for Data Clustering	915
<i>Lei Wu, Lei Peng</i>	
Rich Dynamics in a Small Neural Network.....	920
<i>Hai Cao, Qingdu Li</i>	
Exponential Stabilization for Impulsive Control of T-S Fuzzy Systems with Small Delays.....	925
<i>Shaozhi Wu, Yue Wu, Yuhong Xia, Yongbin Yu, Kang Li, Jie Dong</i>	
Chaos in the Fractional Order MLC System	929
<i>Dongping Wang, Juebang Yu</i>	
Rough Set-based Intelligent Agent Grid Data Management	933
<i>Jia Chen, Di Liu</i>	
Radar Target Recognition Using A Modified Kernel Direct Discriminant Analysis Algorithm	938
<i>Xuelian Yu, Xuegang Wang, Benyong Liu</i>	
A New Method of Combined Classifier Design Based on Fuzzy Integral and Support Vector Machines.....	943
<i>Kexin Jia, Youxin Lu</i>	
Personalized Recommendation Algorithm based on SVM	947
<i>Bing Wu, Luo Qi, Xiongfang</i>	

Table of Contents

A More General Form of Apriori and Its Application in Clustering Security Events	950
<i>Jianxin Wang, Geng Zhao, Yunqing Xia</i>	
An Efficient Association Rule Mining Algorithm and Business Application	955
<i>Zhang Zheng, Wang Hui-Wen</i>	
Optimization of Orthogonal Discrete Frequency-Coding Waveform Based on Modified Genetic Algorithm for MIMO Radar	962
<i>Bo Liu, Zishu He, Qian He</i>	
State Machine Induction with Positive and Negative Training for Thai Character Recognition.....	967
<i>Boontee Kruatrachue, Nattachat Pantrakarn, Kritawan Siriboon</i>	
A Method of Pattern Identification and Classification for Cold Rolling Steel Strip Based on Biorthogonal Wavelet Neural Network.....	972
<i>Zhang Jin-Rong, Yang Yan-Qiu</i>	
Simple Compact Transient Models of Nanocrystal Flash Memory Cell.....	976
<i>Goh Wang Ling, Chen Tupei, Albert Sutiono, Sun Tao, Sun Yujing, Valent Richie</i>	
Analysis and Comparison on Digital Peak Voltage Control with Different Modulation Methods.....	981
<i>Guohua Zhou, Jianping Xu, Mingzhi He, Zhongwen Zhou, Ni Chen</i>	
Multiple Biometric Recognition System with the Function of Real-time Display	986
<i>Xingjia Zhu, Mei Xie</i>	
A Novel Design of DDR-based Data Acquisition Storage Module in a Digitizer.....	991
<i>Jie Guo, Yibing Shi, Zhigang Wang</i>	
High-Order Current-Mode Filters Based on Current Differencing Buffered Amplifiers.....	995
<i>Yuh-Shyan Hwang, Zhao-Hong Huang, Jiann-Jong Chen, Wen-Ta Lee</i>	
Analog Circuits Fault Diagnosis Using Support Vector Machine	999
<i>Yongkui Sun, Guangju Chen, Hui Li</i>	
An Ultra Low Output Resistance and Wide Swing Voltage Follower.....	1003
<i>Yaohui Kong, Shuzheng Xu, Huazhong Yang</i>	
A High Efficiency Dual-Mode Buck Converter IC For Portable Applications	1007
<i>Wan-Rone Liou, Tsung-Hsing Chen, Yueh-Lung, Mei-Ling Yeh</i>	
Power-Gating Adiabatic Flip-Flops and Sequential Logic Circuits.....	1012
<i>Jianping Hu, Dong Zhou, Ling Wang</i>	
Analysis of Lossless Current Sensing Techniques with High Accuracy and Linearity	1017
<i>Linda Ng, Subkhan Prawira, L. S. Ng, Y. Y. H. Lam, H. S. Fong</i>	
An Isolation-Based Circuit Design for Soft Error Suppression.....	1021
<i>Ku He, Rong Luo, Yuan Xie</i>	
High-level Power Estimation with Improved Entropy for Considering the Temporal Correlated Signals.....	1026
<i>Wu Yipin, Zhou Feng, Chen Hua, Niu Qi, Li Shun, Chen Chunhong</i>	
Sigma Delta Modulator Design Automation	1030
<i>Chung-Ming Hsieh, Hung-Wei Chiu</i>	
Self-Compensating Power Supply Circuit for Low Voltage SOI.....	1035
<i>Leona Okamura, Fukashi Morishita, Katsumi Dosaka, Kazutami Arimoto, Tsutomu Yoshihara</i>	
Stochastic Resonance in a Harmonic Oscillator with Randomizing Damping by Asymmetric Dichotomous Noise.....	1040
<i>Shiqi Jiang, Feng Guo, Yurong Zhou, Tianxiang Gu</i>	
A Novel Flash A/D Converter with Ultra Short Latency and High Bubble Error Tolerance.....	1044
<i>Chia-Nan Yeh, Yen-Tai Lai, Chi-Chou Kao</i>	

Table of Contents

Hamming Distance and Normalization Circuits	1049
<i>W. Suntiamorntut</i>	
A GIDL-Current Model for Advanced MOSFET Technologies Implemented into HiSIM2	1053
<i>Ryosuke Inagaki, Mitiko Miura-Mattausch</i>	
High-Speed Continuous Time Digitizer Using a Two-Level Multiphase Sampling Technique	1058
<i>Chorng-Sii Hwang, Chih-Wei Sung, Hen-Wai Tsao</i>	
The Design of RFID Testing Channel Based on Direct Digital Synthesis Chip	1063
<i>Hong Ying-Zheng, Chen Wei</i>	
One-way Hash Functions Based on Iterated Chaotic Systems	1066
<i>Peng Fei, Qiu Shui-Sheng</i>	
A Novel Approach to Control Lorenz System	1071
<i>Xingwen Liu</i>	
A SPICE-Oriented Nonexistence Test for DC Solutions of Nonlinear Circuits	1074
<i>Wataru Kuroki, Kiyotaka Yamamura</i>	
Delayed State-Feedback Fuzzy Controller Design for Synchronization Between Two Chaotic Systems	1079
<i>Shiquan Shao, Xin Gao</i>	
An Effective Implementation of the Nonlinear Homotopy Method for MOS Transistor Circuits Based on SPICE3	1082
<i>Hong Yu, Yasuaki Inoue, Kazutoshi Sako, Guangming Hu, Xiaochuan Hu</i>	
Study on Impulsive Synchronization of Chaotic System by Computing Conditional Lyapunov Exponent	1086
<i>Jiang Fei, Liu Zhong</i>	
Synchronization of Hyperchaotic Systems via Active Control	1090
<i>Xiaobing Zhou, Yue Wu, Yi Li, Hongquan Xue</i>	
Nonlinear Spring Model of Self-Organizing Map and its Chaotic Behavior	1095
<i>Haruna Matsushita, Yoshifumi Nishio</i>	
Analysis of Phase Noise and Timing Jitter in Crystal Oscillator	1099
<i>Tan Feng, Huang Xianhe, Fu Wei, Wei Wei</i>	
Spice-Oriented Intermodulation Analysis Combining with MATLAB	1103
<i>Junji Kawata, Yoshihiro Yamagamiy, Yoshifumi Nishioy, Akio Ushida</i>	
An Efficient and Practical Algorithm for Finding All DC Solutions of Nonlinear Circuits	1107
<i>Kiyotaka Yamamura, Koki Suda</i>	
Impulsive Synchronization for T-S Fuzzy Model-based Chaotic Systems	1112
<i>Qishui Zhong, Yongbin Yu, Jingfu Bao, Songbai He</i>	
DC Tolerance Analysis of Nonlinear Circuits Using Set-Valued Functions	1116
<i>Kiyotaka Yamamura, Yasuaki Haga</i>	
A New 94.5GHz Avalanche Diode High Order Frequency Multiplier	1121
<i>Minghua Zhao, Dakui Wu, Yong Fan, Jingkun Zhan, Yonghong Zhang</i>	
Two Theorems on the Robust Designs of a Kind of Uncoupled CNNs with Applications	1124
<i>Xiaojie Zhang, Lequan Min</i>	
Stability Analysis of Feedback Circuits in Analog Multiplier Designs	1129
<i>Fayan Wang, Zhangcai Huang, Na Li, Xuetao Sun, Yasuaki Inoue</i>	
Research on Amplitude-Phase Consistency of Power Amplifiers in Transmit/Receive Modules	1133
<i>Yu Tao, Guanghu Liu</i>	
Absolute Stabilization for Impulsive Control of Chua's Oscillators	1137
<i>Yongbin Yu, Qishui Zhong, Kang Li, Juebang Yu, Xiaofeng Liao</i>	

Table of Contents

An Analytical Approach to Incremental Floorplanning	1141
<i>Xin Li, Yuchun Ma, Xianlong Hong, Sheqin Dong</i>	
A Fast Nonlinear Timing Analysis Method for Nanometer Technologies	1146
<i>Ruijing Shen, Xiangqing He</i>	
Modeling the Impact of Input-to-Output Coupling Capacitance on Power Dissipation Estimation in Deep Submicron CMOS Circuits.....	1150
<i>Zhangcai Huangy, Na Li, Sui Huang, Yasuaki Inoue</i>	
Simultaneous Optimization of Performance and Thermal Effects Based on Two-stage Microarchitectural Floorplanning.....	1154
<i>Ning Xu, Feng Huang, Yuchun Ma, Zhonghua Jiang, Xianlong Hong</i>	
A Novel Incremental Floorplan Algorithm for Duplication in Integration of High-level Synthesis and Floorplan	1159
<i>Hui Dai, Jinian Bian, Qiang Zhou, Zhipeng Liu</i>	
Modified Diagnosis Algorithms Based on Multisignal Model and Application in Circuit Boards.....	1164
<i>Bing Long , Shulin Tian, Houjun Wang</i>	
Timing Driven Layer Assignment Considering Via Resistance and Coupling Capacitance.....	1168
<i>Yanming Jia, Yici Cai, Xianlong Hong</i>	
A Watermarking Technique for Hard IP Protection in Full-custom IC Design	1173
<i>Fujun Bai, Zhiqiang Gao, Yi Xu, Xueyu Cai</i>	
Crosstalk Minimization Method for System-on-Chip	1177
<i>Chi-Chou Kao</i>	
A Sequential Circuit Partitioning Algorithm for Dynamically Reconfigurable FPGAs	1181
<i>Chi-Chou Kao, Tzu-Chiang Tai, Yun-Yi Hwang, Yen-Tai Lai</i>	
A Research on IDDT Test Pattern Generation Algorithm Based on Digraph Model.....	1185
<i>Jiang Shuyan, Chen Guangju, Xie Xuan</i>	
A Novel Approach to Improving Burst Errors Correction Capability of Hamming Code.....	1189
<i>Jianwu Zhao, Yibing Shi</i>	
A Novel Circuit Design Based CORDIC for QAM Modulator.....	1193
<i>Xueming Wei, Shengyuan Zhou</i>	
Study of Digital Video Interface (DVI) Architecture Design in Computer System	1196
<i>Bai Xiaoping, Bai Xiaoping, Zhang Hongwei</i>	
Projective Synchronization in Coupled Fractional Order Chaotic Electronic Oscillators and its Control.....	1200
<i>Xin Gao, Xingwen Liu, Shiquan Shao</i>	
Controlling Projective Synchronization in Two Coupled Fractional Order Chen Systems.....	1204
<i>Shiquan Shao, Xin Gao</i>	
General Projective Synchronization in Two Fractional Order Rossler Systems and Its controlling	1208
<i>Shiquan Shao, Xin Gao</i>	
Chaotic Synchronization of a Fractional Neuron Network System.....	1212
<i>Shangbo Zhou, Hao Zhu, Hua Li</i>	
A Method to Synthesize Boolean Quantum Circuit Based on Reed-Muller Expansions	1217
<i>Shengchao Ding, Zhi Jin, Qing Yang</i>	
A Tunable 3.9~7.1 GHz CMOS LNA for Ultra- Wideband Wireless Communication	1222
<i>Yao-Chian Lin, Mei-Ling Yeh, Wan-Rone Liou, Chung-Cheng Chang</i>	
Passivity and Passification of Uncertain Fuzzy Large-Scale Systems	1226
<i>Xingwen Liu</i>	

Table of Contents

Study on Periodic Behavior of PSM DC/DC Converters Based on Energy Balance	1231
<i>Niu Quanmin, Zhang Bo, Ming Xin, Zheng Shaowei, Li Zhaoji</i>	
Analysis of the Stability and Ripple of PSM Converter in DCM by EB Model	1236
<i>Luo Ping, Ming Xin, Zhang Bo, Li Zhao-Ji</i>	
Simulation of Surface State Effects in the Transient Response of 4H-SiC MESFETs	1240
<i>Deng Xiaochuan, Zhang Bo, Li Zhaoji, Chen Zhuangliang</i>	
A Versatile 600V BCD Process for High Voltage Applications	1244
<i>Ming Qiao, Xianda Zhou, Xin Zheng, Jian Fang, Bo Zhang, Zhaoji Li</i>	
The Total Dose Radiation Hardened MOSFET with Good High-temperatue Performance.....	1248
<i>Jianbing Cheng, Bo Zhang, Zhaoji Li</i>	
Novel SJ-LDMOS on SOI with Step Doping Surface- Implanted Layer	1252
<i>Wanjun Chen, Bo Zhang, Zhaoji Li</i>	
A Power Electronic Switching Circuit for a HTS Resonantor.....	1256
<i>Jian Xun Jin</i>	
Total Dose Radiation Characteristics of High Voltage LDMOS on SIMOX Substrate	1261
<i>Zhiqiang Xiao, Ming Qiao, Bo Zhang, Jing Xu</i>	
Nonlinear Compensation in Digital Controller of Switching DC-DC Converters	1265
<i>Mingzhi He, Jianping Xu, Zhongwen Zhou, Ni Chen, Guohua Zhou</i>	
Digital Peak Voltage Control of Buck Converter with Multi-sample Technique	1270
<i>Mingzhi He, Jianping Xu, Zhongwen Zhou, Ni Chen, Guohua Zhou</i>	
A new two dimensional analytical breakdown model of SOI RESURF devices.....	1274
<i>Yufeng Guo, Zhaoji Li, Bo Zhang</i>	
Analytical Model for the Surface Electrical field Distributions of Double RESURF Devices with Gaussian-doped P-top Region.....	1279
<i>Qi Li, Zhaoji Li, Bo Zhang</i>	
Study on Theory and Key Technologies of Full Digital SPWM Implementation for Three- Level Neutral Point Clamped Inverter.....	1283
<i>Liu Jian, Yin Xianggen, Zhang Zhe, Xiong Qing</i>	
Design of a Novel PWM Boost Type EBW Stabilized High Voltage Source	1288
<i>Shaojia He, Jinhai Mo, Shouqi Wei, Dao Huang</i>	
Study and Design of Intelligent Current-Sharing Controller In Excitation Power Units	1293
<i>Zou Jianxiao, Xu Hongbing, Wang Houjun</i>	
The Rule of Field Enhancement for Buried Dielectric Layer of SOI High Voltage Devices.....	1298
<i>Z.J. Li, B. Zhang, X.R. Luo, S.D. Hu, J.Fang, Z.H Li, M. Qiao, Y.F. Guo</i>	
The W Band Radiometer for Imaging	1302
<i>Lin Quan, Zhang Yong-Hong, Chen Qi-Ke, Fan Yong, Yang Jian-Yu, Li Liang-Chao</i>	
Signal-Clutter-Noise Power Ratio of Airborne Wideband Radar	1305
<i>Zhao Jianhong, Yang Jianyu</i>	
Design of a PMMW Imaging system.....	1309
<i>Li Liang Chao, Yang Jianyu, Zheng Xin, Fan Yong, Zhang Rong Hong</i>	
Obstacle Detecting System for Vehicle Collision Safeguard	1313
<i>Peng Zhang, Bo Huang, Takaaki Baba</i>	
T-S Fuzzy-Model-Based Impulsive Control of Autonomous Nonlinear Systems.....	1318
<i>Xingwen Liu</i>	

Table of Contents

A Generalized Synchronization Theorem for Discrete-time Chaos System with Application in Data Encryption Scheme	1321
<i>Hongyan Zang, Lequan Min, Geng Zhao</i>	
An Algorithm for Reed-Muller Extraction	1326
<i>Ye Xien, Mao Keyi, Xia Yinshui</i>	
Implementation of a High Sampling Rate Waveform Digitizer for Wireless Communication Testing	1330
<i>Zhigang Wang, Jie Guo, Yibing Shi, Shulin Tian</i>	
Verilog Transformation for an RTL SAT Solver in Formal Verification	1335
<i>Xiaoqing Yang , Jinian Bian, Shujun Deng, Yanni Zhao</i>	
A Novel Micro-payment Scheme for M-commerce based on Self-Renewal Hash Chains	1339
<i>Li Chen, Xiangdong Li, Mingxia Shi</i>	