

2010 IEEE International Conference on Wireless Communications, Networking and Information Security

(WCNIS 2010)

**Beijing, China
25-27 June 2010**

**Volume 1
Pages 1-721**



**IEEE Catalog Number: CFP1008J-PRT
ISBN: 978-1-4244-5850-9**

TABLE OF CONTENTS

1-0001-1569270769	INTER-CARRIER COOPERATIVE CODING/DECODING FOR OFDM SYSTEMS USING GEOMETRIC MEAN DECOMPOSITION <i>Rui Chen, Jiandong Li, Wei Liu, Jian Li</i>	1
1-0002-1569272075	ROBUST TRANSMISSION OF PROGRESSIVE IMAGES IN THE DEEP SPACE COMMUNICATION <i>Zhang Jiayan, Ma Jing, Wu Shaochuan</i>	4
1-0003-1569273015	A TURBO ITERATION ALGORITHM IN 16QAM HIERARCHICAL MODULATION <i>Xu Zhe, Wang YongSheng, Florence Alberge, Pierre DUHAMEL</i>	9
1-0004-1569275157	PERFORMANCE COMPARISON OF PHASE MODULATED SYSTEM BASED ON DSSS WITH HPA NONLINEARITY <i>Zhang Jian feng, Cheng Jian, Liu Bo, Yue qiang</i>	13
1-0005-1569275339	THE PERFORMANCE OF MULTILEVEL CODED 64DAPSK MODULATED OFDM SYSTEM <i>Xinle Yu, Dandan Song, Zhanxin Yang</i>	18
1-0006-1569276411	MULTI-CELL AND MULTI-USER DETECTION IN UPLINK FOR MIMO SYSTEMS <i>Jinyuan Chen, Jingyang Lu</i>	23
1-0007-1569277785	A MULTIPATH MITIGATION ALGORITHM IN GLOBAL NAVIGATION SATELLITE SYSTEMS ARRAYS USING INDEPENDENT COMPONENT ANALYSIS <i>Songtao Lu, Yun Zhao</i>	28
1-0008-1569277957	SELF-ADAPTIVE ALGORITHM FOR IMAGE TRANSMISSION BASED ON NARROW AND VARIABLE BANDWIDTH <i>LIU Gao-ping, ZHENG Zi-han</i>	33
1-0009-1569278293	TRANSMISSION PROPERTIES STUDY OF PDGS WITH DEFECTED TRIANGLES <i>JIN Taobin, JIN Jie, YAO Ruipu, JI Hongmeng, ZHANG Yizhen</i>	37
1-0010-1569278424	PERFORMANCE ANALYSIS FOR MULTIUSER DUAL-HOP DECODE-AND-FORWARD COOPERATIVE SYSTEM OVER NAKAGAMI-M FADING CHANNELS <i>Wei-Guang Li, Hua-Min Chen, and Ming Chen</i>	41
1-0011-1569278621	THE DESIGN OF LOCALIZATION IN WIRELESS SENSOR NETWORK NODE BASED ON JENNIC PLATFORM <i>Guang-zhao Cui, Hao-bin Li</i>	45
1-0012-1569278891	PERFORMANCE ANALYSIS OF OPPORTUNISTIC COOPERATIVE COMMUNICATION OVER NAKAGAMI-M FADING CHANNELS <i>Runping Yuan, Taiyi Zhang, Jianxiong Huang, Jing Zhang, Zhenjie Feng</i>	49

1-0013-1569279627	CAPACITY CRITERION-BASED POWER LOADING FOR UNDERWATER ACOUSTIC OFDM SYSTEM WITH LIMITED FEEDBACK <i>Xiaopeng Huang</i>	54
1-0014-1569280371	DYNAMIC SPECTRUM ACCESS FOR COGNITIVE RADIO SYSTEMS WITH REPEATED GAMES <i>Hongyan Li, Yang Liu, Dexian Zhang</i>	59
1-0015-1569280469	A FFT-WINDOW SEARCH ALGORITHM FOR DIVERSITY COMBINING IN DOWNLINK MULTIPOINT JOINT TRANSMISSION <i>Guolin Sun and Feng Ye</i>	63
1-0016-1569280781	AN ADAPTIVE METHOD FOR MULTI-USER MIMO POWER CONTROLLED SYSTEMS <i>Mahdi Kashiha, Mehrdad Ardebilipour, Ehsan Soleimani-Nasab</i>	68
1-0017-1569281283	A NEW PILOT DESIGN METHOD FOR OFDM SYSTEMS WITH VIRTUAL SUBCARRIERS <i>Die Hu, Xiaolin Zhou</i>	73
1-0018-1569281409	A DSP-BASED UNDERWATER COMMUNICATION MODEM USING ELECTRIC CURRENT METHOD <i>Zhiqiang Wu, Bin Li, Jiadong Xu</i>	78
1-0019-1569281423	A SIMPLE CHANNEL SHORTENING EQUALIZER FOR WIRELESS TDD-OFDM SYSTEMS <i>Ping Zhang and Jiayin Qin</i>	83
1-0020-1569281513	INDOOR WHITE LIGHT WIRELESS DATA TRANSMISSION BASED ON NEW GENERATION ENVIRONMENT-FRIENDLY SOLID STATE LIGHTING <i>Jupeng Ding</i>	87
1-0021-1569281541	EVOLUTIONARY GAME ALGORITHM FOR CHANNEL ESTIMATION IN INTERLEAVE-DIVISION MULTIPLE ACCESS SYSTEMS <i>Jie Song, Jianhao Hu and Zhao Wang</i>	92
1-0022-1569281637	AN IMPROVED IWBF DECODING ALGORITHM BASED ON LDPC CODES IN THE IMAGE TRANSMISSION <i>Wang Zhong-xun, Yu Xin-qiao, Wang Xing-cheng, Guo Dong</i>	98
1-0023-1569281815	AODV ROUTE PROTOCOL RESEARCH BASED ON IMPROVED ERS ALGORITHM <i>LI Shibao, JIA Wei</i>	102
1-0024-1569281989	A DUAL BAND NOTCHED ULTRA-WIDEBAND ANTENNA USING COMPLEMENTARY SPLIT RING RESONATORS	107

	<i>Binggang XIAO, Xiumin WANG, Jixiang ZHAO</i>	
1-0025-1569281993	A BAND NOTCHED ULTRA-WIDEBAND ANTENNA USING COMPLEMENTARY SPLIT RING RESONATOR <i>Binggang XIAO, Xiumin WANG, Jixiang ZHAO</i>	110
1-0026-1569282185	ULTRA-WIDEBAND ANTENNA WITH FREQUENCY NOTCH CHARACTERISTIC USING A COMPLEMENTARY SPLIT RING RESONATOR <i>Binggang XIAO, Xiumin WANG, Jixiang ZHAO</i>	113
1-0027-1569282257	AN IMPROVEMENT OF ENERGY EFFICIENT MULTI-HOP TIME SYNCHRONIZATION ALGORITHM IN WIRELESS SENSOR NETWORK <i>Zhehan Ding, N. Yamauchi</i>	116
1-0028-1569282281	DESIGN AND IMPLEMENTATION OF SIGNAL ACQUISITION SYSTEM BASED ON WIRELESS TRANSMISSION <i>Chunjiang Yao, Xiaohu Chen, comXuping Wang</i>	121
1-0029-1569282397	A PRACTICAL TDOA POSITIONING METHOD FOR CDMA2000 MOBILE NETWORK <i>Weiguo Guan, Zhongliang Deng, Yuetao Ge, Dejun Zou</i>	126
1-0030-1569282407	MULTI-CELL CHANNEL ESTIMATION AND MULTI-CELL JOINT DETECTION IN TD-SCDMA SYSTEM <i>Xiang Zhang, Wenbo Wang, Shuping Chen, Chunyi Wang</i>	130
1-0031-1569282447	DESIGN OF A WIRELESS PORTABLE VIBRATION ACQUISITION AND ANALYSIS INSTRUMENT <i>Gengkun Wang, Wei Xiang and John Leis, Yafeng Wang</i>	135
1-0032-1569282497	LINEAR COMBINATION DESIGN OF WAVELET PULSES FOR UWB COMMUNICATION SYSTEM <i>Bin Xia, Peng Zhang, Qin Guo</i>	140
1-0033-1569282519	DESIGN AND IMPLEMENTATION OF MESH-BASED CURRENT DISTRIBUTION ON-LINE MONITORING SYSTEM IN ALUMINUM REDUCTION CELLS <i>ZHAO Rentao, ZHANG Zhifang, TIE Jun, LI Jun</i>	143
1-0034-1569282561	OPTIMIZED LNA FOR ANALOG RF FRONT-END CIRCUIT IN BRAIN-MACHINE INTERFACE <i>Haizheng Guo, Bo Wang, Bangli Liang, Tad Kwasniewski, Robert Sobot</i>	147
1-0035-1569282719	AN SCHEME IMPROVED ON ITERATIVE DETECTION ALGORITHM FOR V-BLAST <i>Wenbai Chen, Xiaopin Zhang, Wei Li</i>	151
1-0036-1569282759	RESEARCH ON A REALIZATION METHOD OF THE OPTIMIZED	155

	EFFICIENT SPECTRUM SIGNALS USING LEGENDRE SERIES	
	<i>XUE Wei, MA Wei-qun, CHEN Bing-cai</i>	
1-0037-1569282783	OFDM SYMBOL DETECTION BASED ON FREQUENCY-DOMAIN OVERSAMPLING	160
	<i>Qinghua Shi and Y. Karasawa</i>	
1-0038-1569282785	EFFECTS OF CHANNEL ESTIMATION ERRORS ON BPSK SYSTEMS USING SUPERIMPOSED PILOTS	165
	<i>Gongpu Wang, Feifei Gao, Xuerong Gou, and Chintha Tellambura</i>	
1-0039-1569282797	PERFORMANCE SIMULATION OF A KIND OF CONFORMAL SINUOUS ANTENNA WITH FOUR ARMS	169
	<i>Song Lizhong</i>	
1-0040-1569282799	SIMULATION AND ANALYSIS OF A SPHERICAL CONFORMAL ARCHIMEDEAN SPIRAL ANTENNA	173
	<i>Song Lizhong</i>	
1-0041-1569283057	A NOVEL 3780-POINT FFT	178
	<i>XiaoGang YANG, WeiTao DU, JinGang YU, Rui LV, ZhanXin YANG</i>	
1-0042-1569283637	A NOVEL COOPERATIVE SPECTRUM SENSING SCHEME BASED ON CLUSTERING AND SOFTENED HARD COMBINATION	183
	<i>Jiaqi Duan, Yong Li</i>	
1-0043-1569283847	A NOVEL HALF-OVERLAP FMT SYSTEM USING CIC FILTER IN COGNITIVE RADIO	188
	<i>Xugang Liu, Hao Liu</i>	
1-0044-1569284599	DETECTION OF THE CDMA-BASED TRANSFORM DOMAIN COMMUNICATION SYSTEM	193
	<i>Caihua Yin, Yu Zheng, Dawei Ma, Gang Yu, Jian Wang</i>	
1-0045-1569285175	A NEW KIND OF TRANSPORT LAYER ATTACK IN WIRELESS AD HOC NETWORKS	198
	<i>VISHNU K MNNIT</i>	
1-0046-1569285719	POWER ALLOCATION IN OFDM-BASED COGNITIVE RELAY NETWORKS	202
	<i>M. Shamim Kaiser, Kazi M. Ahmed, and Raza Ali Shah</i>	
1-0047-1569285725	TOMLINSON-HARASHIMA PRECODING OPTIMIZATION OVER CORRELATED MIMO CHANNELS	207
	<i>H. Khaleghi Bizaki</i>	
1-0048-1569285731	CHANNEL IMPERFECTION EFFECTS ON THP PERFORMANCE IN A SLOWLY TIME VARYING MIMO CHANNELS	212
	<i>H. Khaleghi Bizaki</i>	
1-0049-1569285871	A ROBUST QOS FRAMEWORK ON ANDROID FOR EFFECTIVE MEDIA DELIVERY TO DLNA ENABLED HOME GATEWAY IN	217

SMART HOME ENVIRONMENT

Keyurkumar J. Patel, S. Vijay Anand, Suman Kumar S.P

1-0050-1569285989	RESEARCH ON POSITION ALGORITHM BASED ON SIMILARITY FOR WIRELESS AD HOC NETWORKS	223
	<i>Lai Xin, Zhai Hualei, Zhu Yi, Li Jun</i>	
1-0051-1569286593	THE DESIGN OF BINARY SHAPING FILTER OF BINARY CODE	228
	<i>Shao-Lun Huang, Yufei Blankenship, Lizhong Zheng,</i>	
1-0052-1569286769	CHANNEL ESTIMATION AND SYMBOL DEMODULATION OF THE TRANSFORM DOMAIN COMMUNICATION SYSTEM	233
	<i>Caihua Yin, Dawei Ma, Yu Zheng, Gang Yu, Jian Wang</i>	
1-0053-1569288083	AN ADAPTIVE SRAKE RECEPTION OF BIORTHOGONAL IR-TH UWB SIGNALS IN IEEE 802.15.4A INDUSTRIAL NLOS ENVIRONMENT	237
	<i>Farah Haroon, Haroon Rasheed and Kazi M. Ahmed</i>	
1-0054-1569288153	FREQUENCY DOMAIN EQUALIZATION WITH USER INTERFERENCE CANCELLATION FOR 2-DIMENSIONAL BLOCK SPREAD CDMA SYSTEM	242
	<i>Yanliang Sun, Ricai Tian, Qiyue Yu</i>	
1-0055-1569288235	MAXIMUM-LIKELIHOOD CFO ESTIMATION FOR MIMO/OFDM UPLINK USING SUPERIMPOSED TRAININGS	247
	<i>Han Zhang, Xianhua Dai</i>	
1-0056-1569288371	MEASUREMENT OF MOBILE RADIO PROPAGATION CHANNEL IN RUINS	252
	<i>Ling Chen, Thomas Ostertag, Marc Loschonsky, Leonhard M. Reindl</i>	
1-0057-1569288451	INTERFERENCE MANAGEMENT FOR DS-CDMA RECEIVER THROUGH BASE STATION ASSIGNMENT IN MULTIPATH FADING CHANNELS	257
	<i>Mohammad Dosaranian Moghaddam, Hamidreza Bakhshi and Gholamreza Dadashzadeh</i>	
1-0058-1569288465	RAPID MODELING, CHARACTERIZATION, OPTIMIZATION METHODOLOGY AND ANALYSIS FOR LOW COST RF FILTER DESIGN	264
	<i>Hairol Azaha Abdul Samad, Mohd Faruzi Shaiful, Mazlaini Yahya</i>	
1-0059-1569288687	CHARMS: COOPERATIVE HYBRID ARCHITECTURE FOR RELAYING MULTICAST SATELLITE STREAMS TO SITES WITHOUT A SATELLITE RECEIVER	269
	<i>Franco Tommasi, Simone Molendini, Elena Scialpi and Catuscia Melle</i>	
1-0060-1569288690	AUTHENTICATION PROTOCOL RUNTIME EVALUATION IN DISTRIBUTED AAA FRAMEWORK FOR MOBILE AD-HOC NETWORKS	277

Sondes LARAF, and Maryline LAURENT

1-0061-1569288696	PHASE SYNCHRONIZATION FOR DISTRIBUTED SENSOR NETWORKS IN FEEDBACK BIT ERRORS <i>Haijie Wu, Yanwu Ding and Hyuck M. Kwon</i>	282
1-0062-1569273557	A ROBUST WATERMARKING SCHEME FOR 3D POINT CLOUD MODELS USING SELF-SIMILARITY PARTITION <i>QI Ke, Xie Dong-qing and Zhang Da-fang</i>	287
1-0063-1569274751	A PROVABLY SECURE AUTHENTICATED KEY EXCHANGE PROTOCOL <i>Lijiang Zhang</i>	292
1-0064-1569274857	VOICE CONVERSION WITH A STRATEGY FOR SEPARATING SPEAKER INDIVIDUALITY USING STATE-SPACE MODEL <i>Ning Xu Zhen Yang Haiyan Guo</i>	298
1-0065-1569275007	A FAST NEW ONE-WAY CRYPTOGRAPHIC HASH FUNCTION <i>Liu Jian-dong, Tian Ye, Wang Shu-hong, Yang Kai</i>	302
1-0066-1569275336	A SECURE KEY MANAGEMENT SYSTEM IN GROUP STRUCTURED MOBILE AD HOC NETWORKS <i>Kamal Kumar Chauhan, Shashikala Tapaswi</i>	307
1-0067-1569275387	A NOVEL HIDDEN MARKOV MODEL FOR DETECTING COMPLICATE NETWORK ATTACKS <i>Shi Zhicai, Xia Yongxiang</i>	312
1-0068-1569275831	COVERT CHANNEL FOR LOCAL AREA NETWORK <i>Liping Ji, Yu Fan and Chuan Ma</i>	316
1-0069-1569277693	MULTIPLE BEAMS SCANNING DOUBLE SQUARE LOOP ANTENNA FOR UWB COMMUNICATIONS <i>Arun Raaza, Amit Mehta</i>	320
1-0070-1569278315	(N, 1) SECRET SHARING APPROACH BASED ON STEGANOGRAPHY WITH GRAY DIGITAL IMAGES <i>Jinsuk Baek, Cheonshik Kim, Paul S. Fisher, and Hongyang Chao</i>	325
1-0071-1569278619	NEW DETECTION SCHEME FOR SPREAD SPECTRUM AUDIO WATERMARKING <i>Lili Li, Xiangzhong Fang</i>	330
1-0072-1569279171	A GENERIC ACCESS CONTROL MODEL BASED ON ONTOLOGY <i>WANG Zhen-wu</i>	335
1-0073-1569279737	DESIGN AND IMPLEMENTATION OF A DIDS <i>Hongmin Cai, Naiqi Wu</i>	340
1-0074-1569280167	CONTENT-BASED NETWORK FILTERING OF ENCRYPTED IMAGE DATA <i>Mohamed Hamdi and Noureddine Boudriga</i>	343

1-0075-1569280609	AN EFFICIENT ROUTING PROTOCOL FOR ANONYMOUS NETWORKS <i>Roman Schlegel, and Duncan S. Wong</i>	349
1-0076-1569281193	INFORMATION HIDING ALGORITHM FOR PALETTE IMAGES BASED ON HVS <i>Junling Ren</i>	354
1-0077-1569281317	AN ANONYMOUS AUTHENTICATION SCHEME FOR MOBILE COMMUNICATION <i>LIU Jin-ye, GU Li-ze, LUO Shou-shan, YANG Yi-xian</i>	359
1-0078-1569281429	A FAST INFORMATION REPRODUCTION METHOD FOR HTTP IN WLAN <i>Ming Wan, Nan Yao, Ying Liu, Hongke Zhang</i>	365
1-0079-1569281469	COPYRIGHT SELFREGISTRATION AND ITS SECURE AUTHENTICATION BASED ON DIGITAL WATERMARK <i>Cheng Yang, Jianbo Liu, Yaqing Niu, Jiayin Tian</i>	370
1-0080-1569281471	AN EMPIRICAL VULNERABILITY REMEDIATION MODEL <i>Deepak Subramanian, Ha Thanh Le, Peter Kok Keong Loh, Annamalai Benjamin Premkumar</i>	376
1-0081-1569281509	MULTI-CONDITIONAL E-CASH WITH TRANSFERABILITY <i>Ying Li, Lu-Sheng Chen</i>	381
1-0082-1569281623	A METHOD FOR TOPOLOGY CONFORMANCE TESTS UNDER LOGICAL CONSTRAINTS <i>Jianwu Zhang, Guoai Xu, Yixian Yang, Shize Guo</i>	386
1-0083-1569281633	A NEW APPROACH FOR IMAGE RETRIEVAL WITH INTEGRATED EUCLIDEAN DISTANCE AND ROTATIONAL CORRELATION <i>Jianfeng Wang Xiaorong Zhao</i>	391
1-0084-1569281649	THE CHARACTERIZATIONS OF BINARY VECTOR-OUTPUT PLATEAUED FUNCTIONS <i>Tinghai Yue</i>	396
1-0085-1569281659	A CONSTRUCTION OF BINARY VECTOR-OUTPUT PLATEAUED FUNCTIONS <i>Tinghai Yue</i>	401
1-0086-1569281781	A NEW APPROACH TO NULL SPACE-BASED NOISE SIGNAL GENERATION FOR SECURE WIRELESS COMMUNICATIONS IN TRANSMIT-RECEIVE DIVERSITY SYSTEMS <i>Shichuan Ma, Michael Hempel, Yaoqing (Lamar) Yang, and Hamid Sharif</i>	406
1-0087-1569281787	LOW COMPLEXITY VIDEO WATERMARKING ALGORITHM BY EXPLOITING CAVLC IN H.264/AVC <i>Da-wen Xu, Rang-ding WANG, Ji-cheng WANG</i>	411

1-0088-1569281807	THE RESEARCH OF WORM DISTRIBUTED DETECTION TECHNOLOGY BASED ON NETWORK SECURITY <i>Tong Xiaojun, Zhao Zhangquan, Shuai Huimin, Wang Zhu</i>	416
1-0089-1569281849	A BLIND DIGITAL WATERMARKING FOR COLOR MEDICAL IMAGES BASED ON PCA <i>Xinde Sun and Shukui Bo</i>	421
1-0090-1569281861	A SIP DOS FLOODING ATTACK DEFENSE MECHANISM BASED ON PRIORITY CLASS QUEUE <i>Wan Xiao-Yu, Zhang Li, Fan Zi-Fu</i>	428
1-0091-1569281883	VLB-VNE: A REGIONALIZED VALIANT LOAD-BALANCING ALGORITHM IN VIRTUAL NETWORK MAPPING <i>Fan Yang, Zhen-kai Wang, Jian-ya Chen, Yun-jie Liu</i>	432
1-0092-1569281973	IMPROVING THE PERTURBED QUANTIZATION STEGANOGRAPHY BY MODIFIED MATRIX ENCODING <i>Xuexiu Zhu, Weiming Zhang, Jianqing Qi, Jiufen Liu</i>	437
1-0093-1569281987	AN IMPROVED SECURITY AUTHENTICATION MECHANISM FOR PARLAY/OSA FRAMEWORK BASED ON SSL/TLS <i>Fan Zi-Fu, Zhang Yi, Wan Xiao-Yu</i>	441
1-0094-1569282057	THE ANALYSIS AND RESEARCH OF SELFISH QUESTION IN P2P <i>Chang Lulu, Guo Chao, Hu Yongsheng</i>	445
1-0095-1569282083	A MODIFIED MIN-SUM ALGORITHM FOR LOW-DENSITY PARITY-CHECK CODES <i>Wei Han, Jianguo Huang, Fangfei Wu</i>	449
1-0096-1569282121	PUBLICKEY CRYPTOSYSTEM BASED ON PERMUTATION RATIONAL FUNCTION <i>Pengcheng Wei, Ran Wei, Yingxian Zhu, Xinbo Yang</i>	452
1-0097-1569282143	A NETWORK SECURITY SYSTEM MODEL BASED ON FPGA <i>Bo Zhou, Wei Han, Huafeng Wu</i>	455
1-0098-1569282163	ROBUST WATERMARKING IN MULTIWAVELET DOMAIN BASED ON AVERAGE SUBIMAGE OF LOW FREQUENCY <i>Xiaonian Tang and Guijun Nian, Jianchun Wang and Xiaoyan Tang</i>	460
1-0099-1569282199	BEHAVIOR PROFILING FOR ROBUST ANOMALY DETECTION <i>Shun-Wen Hsiao, Yeali S. Sun, Meng Chang Chen, Hui Zhang</i>	465
1-0100-1569282289	COVERT COMMUNICATION BASED ON WAVEFORM OVERLAY WITH WEIGHTED FRACTIONAL FOURIER TRANSFORM SIGNALS <i>Lin Mei, Xuejun Sha, and Naitong Zhang</i>	472
1-0101-1569282291	IMPROVED UNIDIRECTIONAL CHOSEN-CIPHERTEXT SECURE PROXY RE-ENCRYPTION	476

	<i>Zhao Guoan, Fang Liming, Wang Jiandong, Ge Chunpeng, and Ren Yongjun</i>	
1-0102-1569282307	AN IDENTITY-BASED SECURITY MECHANISM FOR P2P VOIP <i>Hua Jiang, Yongxing Jia, Xianru Du, Weizhi Wang</i>	481
1-0103-1569282313	AN EFFICIENT UNLINKABLE SECRET HANDSHAKE PROTOCOL WITHOUT ROM <i>Zhao Guoan, Tan Canghai, Ren Yongjun, Fang Liming</i>	486
1-0104-1569282315	A DISTRIBUTED KEY MANAGEMENT SCHEME BASED ON SGC-PKC FOR P2P NETWORK <i>Hua Jiang, Yongxing Jia, Rui Zhang, Shanming Liu</i>	491
1-0105-1569282399	COMPUTATION AND ANALYSIS OF NODE INTENDING TRUST IN WSNS <i>Tian Liqin, Lin Chuang</i>	496
1-0106-1569282533	A QUEUING ANALYSIS FOR LOW-RATE DOS ATTACKS AGAINST APPLICATION SERVERS <i>Xiaodong Xu, Xiao Guo, Shirui Zhu</i>	500
1-0107-1569282535	SECURING MULTI-TIERED WEB APPLICATIONS <i>George Mathew, Xiaojiang Du</i>	505
1-0108-1569282631	DESIGN AND IMPLEMENTATION OF MULTIPLE CRYPTOGRAPHIC ALGORITHM INTERFACE CIRCUIT BASED ON SECURE SOC <i>Luguo ZHANG, Zheng LI, Ruijiao WANG, Shengjun WEN</i>	510
1-0109-1569282643	MULTI-PARTY CONCURRENT SIGNATURES BASED ON SHORT RING SIGNATURES <i>WANG Ling-ling</i>	515
1-0110-1569282653	A COLOR IMAGE WATERMARKING ALGORITHM RESISTANT TO PRINT-SCAN <i>Chengqing GUO, Guoai XU, Xinxin NIU, Yixian YANG, Yang LI</i>	518
1-0111-1569282721	RESEARCH ON THE MULTIHOMING SCHEME IN A LOC/ID SPLIT CONTEXT <i>Haisheng Jiang, Sidong Zhang</i>	522
1-0112-1569282765	A CREDIBLE NETWORK INTRUSION DETECTION SYSTEM BASED ON GRID <i>Shuying Zhang, Shufen Liu, Yue Gao, Jianmei Ge, Limin Wang</i>	528
1-0113-1569282771	ONE-PASS KEY ESTABLISHMENT FOR ANONYMOUS WIRELESS ROAMING <i>Yuan Wang, Duncan S. Wong, and Liusheng Huang</i>	533
1-0114-1569282805	PRIME-BASED MIMIC FUNCTIONS FOR THE IMPLEMENTATION OF COVERT CHANNELS <i>WESLEY CONNELL, DAN TAMIR, MINA GUIRGUIS</i>	538

1-0115-1569282813	OBJECTIVE EVALUATION OF SPIDER DETECTION TECHNIQUES <i>Fan Chunlong, Yu Zhouhua, and Xu Lei</i>	544
1-0116-1569282851	A NEW MODEL OF FORMAL DESIGN SYSTEM OF SECURITY AUTHENTICATION PROTOCOL <i>Wang Hui-bin</i>	549
1-0117-1569282867	SECRET IMAGES SHARING SCHEME USING TWO-VARIABLE ONE-WAY FUNCTIONS <i>Todorka ALEXANDROVA, Yoshiaki SUZUKI, Kan OKUBO, and Norio TAGAWA</i>	553
1-0118-1569282883	EFFICIENT AND PROVABLY SECURE CERTIFICATELESS SIGNCRYPTION FROM BILINEAR MAPS <i>Wenjian Xie and Zhang Zhang</i>	558
1-0119-1569283037	TRUST OPPORTUNISTIC ROUTING PROTOCOL IN MULTI-HOP WIRELESS NETWORKS <i>Wang Bo, Huang Chuanhe, Yang Wenzhong, WangTong</i>	563
1-0120-1569283069	RESEARCH ON RFID SECURITY PROTOCOL BASED ON GROUPED TAGS AND RE-ENCRYPTION SCHEME <i>Chunhui Piao, Zhenjiang Fan, Chunyan Yang, Xufang Han</i>	568
1-0121-1569283079	PERIODIC SEQUENCE IN NETFLOW RECOGNIZING ALGORITHM <i>He Tao, Zhong Hao</i>	573
1-0122-1569283081	RAILWAY PASSENGER DYNAMIC E-BUSINESS BASED ON WEB SERVICES AND RFID <i>Jingdong SUN, Yibin ZHANG</i>	577
1-0123-1569283541	HIGH-SPEED ARCHITECTURES FOR GHASH BASED ON EFFICIENT BIT-PARALLEL MULTIPLIERS <i>Jimei Wang, Guochu Shou, Yihong Hu, Zhigang Guo</i>	582
1-0124-1569283565	GROWTH CUSTOMER INFORMATION MINING ANALYSIS WITH ASSOCIATION RULES IN ON LINE FINANCIAL WEB SITE <i>Dai Zhi-min, Guo Lu</i>	587
1-0125-1569284323	APPLICATION OF BP NEURAL NETWORK IN WIRELESS NETWORK SECURITY EVALUATION <i>Jianxin Fu, Lianfen Huang, Yan Yao</i>	592
1-0126-1569285493	ON THE PRIVACY PROTECTION IN PUBLISH/SUBSCRIBE SYSTEMS <i>Weifeng Chen, Jianchun Jiang, Nancy Skocik</i>	597
1-0127-1569286113	IMPROVEMENT OF ONE ESCROW-FREE IDENTITY-BASED SIGNATURE <i>Lihua Liu, Zhengjun Cao</i>	602

1-0128-1569286241	COMBATING SELF-LEARNING WORMS BY USING PREDATORS <i>Fangwei Wang, Yunkai Zhang, Honggang Guo, and Changguang Wang</i>	607
1-0129-1569286467	COMPRESSED VIDEO COPY DETECTION BASED ON TEXTURE ANALYSIS <i>Zhijie Zhang, Fang Yuan</i>	612
1-0130-1569287075	PREDICTION MODEL OF NETWORK SECURITY SITUATION BASED ON REGRESSION ANALYSIS <i>Xia Wei-wei, Wang Hai-feng</i>	616
1-0131-1569287361	A SOFTWARE VULNERABILITY ANALYSIS ENVIRONMENT BASED ON VIRTUALIZATION TECHNOLOGY <i>Wang Chunlei, Wen Yan, Dai Yiqi</i>	620
1-0132-1569287749	THE STUDY OF WATERMARKING ALGORITHM FOR VECTOR GEOSPATIAL DATA BASED ON THE PHASE OF DFT <i>Dehe Xu, Qisheng Wang</i>	625
1-0133-1569287841	A GENERIC DATA MODEL WITH A DECOMPOSITION OPERATION FOR DRM INTEROPERABILITY <i>Wenhui Lu, Zheyang Zhang, Jyrki Nummenmaa</i>	630
1-0134-1569287919	AN ATTACK-RESILIENT GRID AUDITING INFRASTRUCTURE <i>Christopher Kunz, Jan Wiebelitz and Matthew Smith</i>	635
1-0135-1569288299	COUNT OF ANNIHILATORS OF BOOLEAN FUNCTIONS WITH GIVEN ALGEBRAIC IMMUNITY <i>Yusong DU, Dingyi PEI</i>	640
1-0136-1569288411	AN IDENTITY-BASED SECURITY INFRASTRUCTURE FOR CLOUD ENVIRONMENTS <i>Christian Schridde, Tim Dornemann, Ernst Juhnke, Bernd Freisleben, Matthew Smith</i>	644
1-0137-1569288419	ELLIPTIC CURVE CRYPTOGRAPHY BASED MUTUAL AUTHENTICATION PROTOCOL FOR LOW COMPUTATIONAL CAPACITY RFID SYSTEMS – PERFORMANCE ANALYSIS BY SIMULATIONS <i>Gyozo Godor, Norbert Giczi, Sandor Imre Dr.</i>	650
1-0138-1569288509	FAST-FLUX ATTACK NETWORK IDENTIFICATION BASED ON AGENT LIFESPAN <i>Sheng Yu, Shijie Zhou, and Sha Wang</i>	658
1-0139-1569288571	RESEARCH ON A SECURE MOBILE PAYMENT BASED ON MULTI-AGENTS <i>Wang Qiongqiong, Xin Mingjun</i>	663
1-0140-1569288575	APPLICATION LEVEL NETWORK ACCESS CONTROL SYSTEM BASED ON TNC ARCHITECTURE FOR ENTERPRISE NETWORK <i>Zhen Chen, Fa-Chao Deng, An-An Luo, Xin Jiang, Guo-Dong Li, Run-hua</i>	667

Zhang, Chuang Lin

1-0141-1569288595	AASC: ANONYMIZING NETWORK ADDRESSES BASED ON SUBNET CLUSTERING <i>Yi Tang, Yuanyuan Wu, Quan Zhou</i>	672
1-0142-1569288615	BIOMETRIC VERIFICATION USING HAND VEIN-PATTERNS <i>Xue Yuan</i>	677
1-0143-1569288649	AUTONOMOUS AGENT BASED INTRUSION DETECTION IN VIRTUAL COMPUTING ENVIRONMENT <i>Alex K. Ohoussou, Hai Jin, Deqing Zou, Feng Zhao, Guofu Xiang, Ge Cheng</i>	682
1-0144-1569288659	RESEARCH ON A BEHAVIOR-BASED ACTIVE CONTROLLABLE DEFENSE MODEL AND ITS APPLICATION <i>Zhitao Guan, Jietao He, Kehe Wu, Shuai Yuan</i>	687
1-0145-1569288711	ANALYSIS OF ATTACK MODELS VIA UNIFIED MODELING LANGUAGE IN WIRELESS SENSOR NETWORKS: A SURVEY STUDY <i>Sunghyuck Hong, Sunho Lim</i>	692
1-0146-1569288777	WIDEBAND AUDIO OVER NARROWBAND BASED ON DIGITALWATERMARKING <i>Zhenyi Luo and Jiying Zhao</i>	697
1-0147-1569288781	A KEY-CODE WATERMARKING ALGORITHM FOR VIDEO CONTENT PROTECTION <i>Myoung-Hoon Lee, Vincent So, and Jiying Zhao</i>	702
1-0148-1569288783	NETWORK PERFORMANCE EVALUATION OF ROUTERS IN IPV4/IPV6 ENVIRONMENT <i>Shaneel Narayan (Member IEEE), Shailendra S. Sodhi, Paula R. Lutui, Kaushik J. Vijayakumar</i>	707
1-0149-1569288791	INTRUSION DETECTION OF SINKHOLE ATTACKS IN LARGE-SCALE WIRELESS SENSOR NETWORKS <i>Changlong Chen, Min Song, and George Hsieh</i>	711
1-0150-1569296004	TRUST MANAGEMENT FOR MOBILE AGENT SYSTEM BASED ON TRUSTED COMPUTING PLATFORMS <i>Zhidong Shen, Xiaoping Wu, Jing Zhan</i>	717

AUTHOR INDEX

2010 IEEE International Conference on Wireless Communications, Networking and Information Security

(WCNIS 2010)

**Beijing, China
25-27 June 2010**

**Volume 2
Pages 1-688**



**IEEE Catalog Number: CFP1008J-PRT
ISBN: 978-1-4244-5850-9**

TABLE OF CONTENTS

2-0001-1569268121	PARTICLE SWARM OPTIMIZATION BASED MUD FOR OVERLOADED MC-CDMA SYSTEM <i>M. A. S. Choudhry, M. Zubair, I. M. Qureshi</i>	1
2-0002-1569274001	RESEARCH ON AUTOCORRELATION OF CHAOTIC SEQUENCE BY PHASE SPACE METHOD <i>Bin Chen, Peng Cai, Yong Zhang, Jian Huang, Yun-Song Wu, Jun Tang</i>	6
2-0003-1569275818	A COMBINATION SCHEME FOR SERIAL TURBO CODE AND DIFFERENTIAL UNITARY SPACE-TIME MODULATION <i>Hongbo Yuan, Dapeng Zhang, and Zhao Jin</i>	13
2-0004-1569275895	NETWORK JOINT CODING-AWARE ROUTING FOR WIRELESS AD HOC NETWORKS <i>Zhiheng Zhou, Liang Zhou</i>	17
2-0005-1569276583	A BOUNDARY-SCAN TEST BUS CONTROLLER DESIGN FOR MIXED-SIGNAL TEST <i>CHEN Shengjian, XU Lei</i>	22
2-0006-1569276743	A NEW CLOSED APPROXIMATED FORMED EXPRESSION FOR THE ACHIEVABLE RESIDUAL ISI OBTAINED BY ADAPTIVE BLIND EQUALIZERS FOR THE NOISY CASE <i>Monika Pinchas</i>	26
2-0007-1569276953	A NOVEL FREQUENCY TRACKING ALGORITHM IN HIGH DYNAMIC ENVIRONMENTS <i>Hailong Zhao, Xianglu Li, Jian Zhang, Jie Zhou</i>	31
2-0008-1569277011	A SIMPLE CHANNEL ESTIMATION METHOD IN MIMO-OFDM SYSTEMS WITH VIRTUAL SUBCARRIERS <i>Wanlu Sun, Wei Yang, Lihua Li</i>	35
2-0009-1569277259	ENHANCED EQUALIZATION IN OFDM SYSTEMS USING CYCLIC PREFIX <i>A. A. Quadeer</i>	40
2-0010-1569277353	A UNIFIED APPROACH TO THE UNILATERAL BOUNDS OF INTERFERENCE PERFORMANCE <i>Qiuyan Liu, Zhangdui Zhong, Bo Ai</i>	45
2-0011-1569277375	REMOVE MULTIFREQUENCY MIXTURE NOISE IN PROCESSING OF WIRELESS COMMUNICATION WAVE/ RADAR REFLECT SIGNAL BY METHOD OF ICA <i>Wang Zhuo, Wang Lizhi, Yang Yong</i>	50
2-0012-1569278194	A METHOD FOR SPECIFIC EMITTER IDENTIFICATION BASED ON EMPIRICAL MODE DECOMPOSITION <i>Chunyun Song, Jianmin Xu, Yi Zhan</i>	54

2-0013-1569278609	ADAPTIVE DETECTION FOR SPREAD SPECTRUM AUDIO WATERMARKING <i>Lili Li, Xiangzhong Fang</i>	58
2-0014-1569279275	IMPROVED PATTERN SYNTHESIS METHOD WITH LINEARLY CONSTRAINT MINIMUM VARIANCE CRITERION <i>Liu Xiaojun, Liu Congfeng, Liao Guisheng</i>	63
2-0015-1569280335	JOINT SIGNAL DETECTION AND RECOVERY VIA BLIND SIGNAL SEPARATION <i>Jie Zhuo, Chao Sun, Yixin Yang, Bing Li</i>	67
2-0016-1569280581	DCT-DOMAIN TRANSLATION FOR COMPOSING BETTER PICTURES IN THE MDSQ-BASED MULTIPLE DESCRIPTION VIDEO CODING <i>Shuyuan Zhu, Siu-Kei Au Yeung, Bing Zeng</i>	72
2-0017-1569281121	A TYPE OF TWTA PREDISTORTION LINEARIZER FOR SPACE TELECOMMUNICATION APPLICATIONS <i>Xin Hu, Gang Wang, JiRun Luo, ZiCheng Wang</i>	77
2-0018-1569281329	A NEW SELECTIVE SIGNAL DETECTION BASED ON ITERATIVE JOINT CHANNEL ESTIMATION IN MIMO-OFDM SYSTEMS <i>Liang Dai, Xuekang Sun and Hao Chen</i>	80
2-0019-1569281505	A HIGHER-ORDER PREDICTION METHOD OF SPATIAL CUES BASED ON BAYESIAN GRADIENT MODEL <i>Chen Zhou, Ruimin Hu, Heng Wang</i>	85
2-0020-1569281609	CONSTRUCTION OF QUASI CYCLIC LDPC WITH ACE CONSTRAINT <i>Jilong Li, Na Di, Ming Yang, Zhiyong Wu</i>	90
2-0021-1569281709	COMPRESSIVE SENSING BASED MEASUREMENT OF TIME-FREQUENCY SHIFTS SYSTEM <i>Xie Xiao-Chun</i>	94
2-0022-1569281713	AN AVERAGE-ENTROPY-VALUE-BASED STOPPING CRITERION FOR BICM-ID <i>Zhang Shuai, Li Jianping, Cai Chaoshi</i>	98
2-0023-1569281821	QUALITY ASSESSMENT FOR A PERCEPTUAL VIDEO ENCRYPTION SYSTEM <i>Siu-Kei Au Yeung, Shuyuan Zhu, Bing Zeng</i>	102
2-0024-1569281825	A NEURAL NETWORK BASED CODING MODE SELECTION SCHEME OF HYBRID AUDIO CODER <i>Mu-Liang Wang, Mn-Ta Lee</i>	107
2-0025-1569281923	THE DESIGN OF HIGH SPEED IMAGE ACQUISITION SYSTEM OVER GIGABIT ETHERNET <i>Weihua Zhang, Zhonghui Wei, Xin He, Peiyu Qiao, Guolong Liang</i>	111

2-0026-1569281997	A FAST MOTION ESTIMATION OPTIMIZATION FOR H.264/AVC ENCODER <i>Chen Zu-jue, Cao Jie, Liu Shao-qing</i>	116
2-0027-1569282015	AN ETHERNET OVER SONET/SDH MAPPING CHIP AND ITS PATH PROTECTION SWITCHING IMPLEMENTATION <i>Lijun Zhang, Yao Zhao, Bo Ye, Min Luo</i>	120
2-0028-1569282077	A BP DECODING ALGORITHM BASED ON NODES RESIDUAL FOR LDPC CODES <i>Wang Zhong -xun, Wang Xing-cheng, Yu Xin-qiao, Guo Dong</i>	124
2-0029-1569282109	INCREASE CHANNEL CAPACITY IN MIMO SYSTEM BY ADJUSTING THE AXIAL RATIO OF CIRCULAR POLARIZED ANTENNA <i>Leng Wen, Wang An-guo</i>	128
2-0030-1569282111	STUDY OF FREQUENCY DOMAIN EQUALIZATION FOR CHIRP SPREAD SPECTRUM SYSTEMS <i>Kewu Huang, Ran Tao, and Yue Wang</i>	132
2-0031-1569282113	TURBO EQUALIZATION AND CHANNEL RE-ESTIMATION IN OFDM OVER DOUBLY-SELECTIVE CHANNEL <i>Kok Ann Donny Teo, Shuichi Ohno, Takanori Ishii</i>	137
2-0032-1569282125	A UNITARY TRANSFORMATION METHOD FOR DOA ESTIMATION WITH UNIFORM CIRCULAR ARRAY <i>Dechen Xu, Zhiwen Liu, Yougen Xu, Jinliang Cao</i>	142
2-0033-1569282145	OPTIMAL NONCOHERENT FREQUENCY DETECTION OF DIFFERENTIAL FREQUENCY HOPPING SIGNAL <i>Zhang Yi, Yao Fu-qiang</i>	146
2-0034-1569282249	EXPLOITATION OF KNOWN SHORT AND LONG SYMBOLS FOR CARRIER FREQUENCY OFFSET ESTIMATION IN OFDM WIRELESS LAN SYSTEMS <i>Qi Cheng</i>	150
2-0035-1569282267	THE UPPER BOUNDS OF PUNCTURED RING CONVOLUTIONAL CODED CONTINUOUS PHASE MODULATION <i>Lei Zhang, Weibing Xu, Haibo Wang</i>	154
2-0036-1569282305	AN IMPROVED FEEDBACK CANCELLING METHOD FOR ONCHANNEL REPEATER <i>Feng Qunchao, Chen Yuanzhi</i>	158
2-0037-1569282321	PERIODIC MESSAGE-BASED MODELING AND PERFORMANCE ANALYSIS OF AFDX <i>LI Du-juan, ZHANG Jian-dong, LIU Bin</i>	162
2-0038-1569282345	THE SECURE APPROACH OF ACCESSING TO THE KERNEL	167

DATABASE IN STATE KEY INFORMATION SYSTEM

MA Lan, YAN Hanming JIN Zonghui

- 2-0039-1569282347 **STATE OBSERVER BASED ADAPTIVE INFORMATION ASSURANCE EVALUATION MODEL** 173
MA Lan, LI Gang GAO Wei
- 2-0040-1569282359 **PREDICTING ARTERIAL STIFFNESS WITH THE AID OF ENSEMBLE EMPIRICAL MODE DECOMPOSITION(EEMD) ALGORITHM** 179
Hsien-Tsai Wu, Chun-Ho Lee, Chun-Erh Chen, An-Bang Liu
- 2-0041-1569282361 **RESEARCH ON VOICE CODEC ALGORITHMS OF SIP PHONE BASED ON EMBEDDED SYSTEM** 183
Jinhe Zhou, Tonghai Wu, Junmin Leng
- 2-0042-1569282485 **BLIND SPREADING SEQUENCE SET ESTIMATION OF THE M-ARY DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS** 188
PengYu Qiu, Dan Xu, ZhiTao Huang and WenLi Jiang
- 2-0043-1569282541 **DECODING LOW-DENSITY PARITY-CHECK CODES WITH ERROR-FLOOR FREE OVER THE AWGN CHANNEL** 192
Li Yang, Martin Tomlinson, Marcel Ambroze
- 2-0044-1569282563 **A SINGLE-CHIP SOLUTION FOR RAILWAY FREQUENCY-SHIFT SIGNAL DETECTION** 197
Yang Fan, Dai Shenghua
- 2-0045-1569282593 **IMPROVEMENTS ON CODES IN NON BINARY FIELDS USING GENERALISED ALGEBRAIC GEOMETRY CODES** 202
Mubarak Jibril, Martin Tomlinson, Mohammed Zaki Ahmed and Cen Tjhai
- 2-0046-1569282843 **REDUCING PAPR BASED ON CONSTELLATION MAPPING & FAST ALGORITHM** 206
Su Yanyong, Wu Huaming, Xu Yuanyuan
- 2-0047-1569282881 **RESEARCH ON MODULATION CLASSIFICATION USING EMPIRICAL MODE DECOMPOSITION METHOD** 211
Ning An, Bingbing Li, Min Huang
- 2-0048-1569283215 **A NOVEL MODEL CHARACTERISTICS FOR NOISE-ROBUST AUTOMATIC SPEECH RECOGNITION BASED ON HMM** 215
M. Saadeq Rafiee, Ali Akbar Khazaei
- 2-0049-1569283695 **MULTIBAND CROSS FRACTAL DIPOLE ANTENNA FOR UHF AND SHF APPLICATIONS** 219
Fawwaz J. Jibrael, Wafaa S. Mummo, Mahmoud T. Yaseen
- 2-0050-1569284683 **PARTICLE FILTERING FOR BLIND EQUALIZATION USING THE OPTICAL IMPORTANCE FUNCTION** 224
Songyin, DAI, Tao, WU, Sijie, YUAN

2-0051-1569284775	THE CONSTITUTION OF THE TRANSMISSION NETWORK FOR THE NEXT GENERATION CABLE DIGITAL TV SIGNALS <i>SUN Youwei, CHEN Rong, XU Guangning</i>	229
2-0052-1569286043	AVERAGE FILTERED BLIND SEPARATION OF DS-CDMA SIGNALS WITH ICA METHOD <i>Miao Yu, Jianzhong Chen, Shiju Li</i>	234
2-0053-1569286045	CONVERGENCE CHARACTERISTICS ANALYSIS ON BLIND SEPARATION OF DS-CDMA SIGNALS WITH ICA METHOD <i>Miao Yu, Shiju Li, Jianzhong Chen</i>	238
2-0054-1569286217	A QUANTIZATION SCHEMA WITH NEGLIGIBLE DEGRADATION FOR LDPC DECODER <i>Ming-Qiu Wang, Shu-Tao Xia, He-Guang Su, Lai-Zhong Cui</i>	243
2-0055-1569286231	INTERHARMONIC ESTIMATION BASED ON COMPLEX VALUED INDEPENDENT COMPONENT ANALYSIS <i>Zhao Liquan, Jia Yanfei</i>	248
2-0056-1569286237	A NEW CURRENT-MODE ACTIVE-ONLY UNIVERSAL FILTER USING CCCIS <i>Shanshan Li, Jinguang Jiang, Jiake Wang, Xu Gong, Qingyun Li</i>	252
2-0057-1569286649	A MULTIMODE MULTI-BAND EXCITATION WITH LINEAR PREDICTION VOCODER <i>Yanxia Liang, Jiawei Yang, Ye Li</i>	256
2-0058-1569287939	PERFORMANCE OF NB-LDPC AND DBTC CODES WITH CHANNEL ESTIMATION AND SNR MISMATCH <i>J. Bas, I.Gutierrez, A. Mourad</i>	260
2-0059-1569288043	BACK PROPAGATION NEURAL NETWORK APPROACH FOR CHANNEL ESTIMATION IN OFDM SYSTEM <i>Necmi Taspinar, M. Nuri Seyman</i>	265
2-0060-1569288179	ON THE DESIGN OF LOW COMPLEXITY DECODING (LCD) NETWORK CODES <i>D. Y. Hu, M. Z. Wang, and F. C. M. Lau, Q. C. Peng</i>	269
2-0061-1569288220	THE DIRECTION OF ARRIVAL ESTIMATION IN DS-CDMA SYSTEMS EMPLOYING THE CODE-MATCHED FILTERS AND PARALLEL ESPRIT ALGORITHMS <i>Farid. Samsami Khodadad, S. B. Hoseini Karani, A. Safaei, M. Hadi Karami Ata, Ali Taheri</i>	274
2-0062-1569288314	ON COMPUTATION OF MINIMUM DISTANCE OF LINEAR BLOCK CODES ABOVE 1/2 RATE CODING <i>Raghunadh K Bhattar, K.R.Ramakrishnan and K.S.Dasgupta</i>	280
2-0063-1569288517	NONCOHERENT SPACE-FREQUENCY CODING THROUGH LARGE-SCALE OPTIMIZATION AND EFFICIENT DETECTION	285

2-0064-1569296000	SIMULATION ANALYSIS OF ERROR CORRECTION METHOD OF HEADLAMP DETECTION BASED ON DRIVING DIRECTION <i>Hongying Shan, Lili Su, Songyan Pan, Shubin Ge, Libin Zhang</i>	290
2-0065-1569296009	DIVERSITY-MULTIPLEXING TRADEOFF ANALYSIS FOR WIRELESS MULTICAST SYSTEMS WITH AMPLIFY-AND-FORWARD SCHEME <i>Hongying Tang, and Wen Chen</i>	295
2-0066-1569275021	ADAPTATION OF SAMPLING IN TARGET TRACKING SENSOR NETWORKS <i>Mohammad Rahimi, Reza Safabakhsh</i>	301
2-0067-1569275582	A DISTRIBUTED RELAY NODE PLACEMENT STRATEGY BASED ON BALANCED NETWORK LIFETIME FOR WIRELESS SENSOR NETWORKS <i>Yue Yao, Yong Fan, and Haiyan Luo</i>	306
2-0068-1569276345	A COMPARATIVE SURVEY OF ROUTING PROTOCOL FOR VEHICULAR SENSOR NETWORKS <i>Xin Su</i>	311
2-0069-1569277849	A CROSS-LAYER FLOW CONTROL ALGORITHM OVER HSDPA NETWORKS <i>Xiaomeng Huang, Nan Jiang, Jinzhe Yang</i>	317
2-0070-1569278269	AN EFFICIENT TIME SLOT ALLOCATION ALGORITHM IN WIRELESS NETWORKS <i>Frank Yeong-Sung Lin and Cheng-Ta Lee, Li-Yi Lin</i>	322
2-0071-1569278355	STUDY OF MANET ROUTING EVALUATION MODEL BASED ON BEST-FIRST <i>Qiao Luo, Jing Chen, Chonghui Huang, Guirong Chen</i>	329
2-0072-1569278469	DYNAMIC RESOURCE MANAGEMENT MECHANISM DESIGN FOR HETEROGENEOUS NETWORKS UNDER IEEE1900.4 FRAMEWORK: A NETWORK UTILITY MAXIMIZATION PERSPECTIVE <i>Chungang Yang, Jiandong Li,</i>	333
2-0073-1569278539	ARATOS: AN INTELLIGENT MACHINE-TO-MACHINE FRAMEWORK FOR SERVICES BASED ON SATELLITE EARTH OBSERVATION DATA <i>Nikolaos Bogonikolos, Georgios Mantas, Giorgos Kostopoulos</i>	338
2-0074-1569280131	DUAL-CHANNEL POWER CONTROLLED BACKOFF BASED ON GEOGRAPHIC LOCATION IN AD HOC NETWORKS <i>You-fu Jiang, Guang-hui Wang, Hai-yang Jin</i>	343
2-0075-1569280171	A NEW TRACKING-AWARE GOSSIPING SCHEME FOR WIRELESS SENSOR NETWORKS	349

2-0076-1569280563	A FAIR RATE-BALANCE LINK SCHEDULING IN WIMAX MESH NETWORK	355
	<i>Yanbin Huang, Shoubao Yang, Da Teng, Weiqing He, Lihua Xie</i>	
2-0077-1569281419	A NOVEL ENVIRONMENT SELF-ADAPTIVE LOCALIZATION ALGORITHM BASED ON RSSI FOR WIRELESS SENSOR NETWORKS	360
	<i>Xiao YI, Yu LIU, Lu DENG</i>	
2-0078-1569281589	STOCHASTIC LOCATION-AIDED ROUTING FOR MOBILE AD-HOC NETWORKS	364
	<i>Yuntao Zhu, Junshan Zhang, and Kautilya Partel</i>	
2-0079-1569281607	BBS-ONE: BULLETIN BOARD AND FORUM SYSTEM FOR MOBILE OPPORTUNISTIC NETWORKS	371
	<i>Kiwoon Sung, Suman Srinivasan, and Henning Schulzrinne</i>	
2-0080-1569281687	A HPMM METHOD FOR INCREASING MOBILE DOWNLOADING SPEED	377
	<i>Xiaoqiang Su, Hong Ni</i>	
2-0081-1569281705	A BALANCED ENERGY CONSUMPTION CLUSTERING ALGORITHM FOR HETEROGENEOUS ENERGY WIRELESS SENSOR NETWORKS	382
	<i>Xiaofu Ma, Yu Fang, Xingzhen Bai</i>	
2-0082-1569281723	A NOVEL SPATIAL DYNAMIC SPECTRUM ALLOCATION IN THE URBAN HETEROGENEOUS SCENARIO	387
	<i>Ding Zhe, Xu Yubin</i>	
2-0083-1569282045	A CROSS-LAYER QOS SCHEME FOR MPEG-4 STREAMS	392
	<i>Zemin Ma, Jinhe Zhou, Tonghai Wu</i>	
2-0084-1569282059	A NOVEL QOS-ORIENTED PACKET SCHEDULING ALGORITHM FOR MIXED SERVICES IN THE DOWNLINK OF OFMDA SYSTEM	397
	<i>Yejun Liu, Qingyang Song, Lei Guo and Xingwei Wang</i>	
2-0085-1569282097	QOS-BASED FAST HANDOVER SCHEME FOR IMPROVING SERVICE CONTINUITY IN MIPv6	403
	<i>Shin-Jer Yang and Sao-Uen Chen</i>	
2-0086-1569282115	PREDICTING THE LINK STABILITY BASED ON LINK CONNECTIVITY CHANGES IN MOBILE AD HOC NETWORKS	409
	<i>Shiqiang Wang, Qingyang Song, Jianxin Feng and Xingwei Wang</i>	
2-0087-1569282119	A SECURE ANONYMOUS PATH ROUTING PROTOCOL FOR WIRELESS SENSOR NETWORKS	415
	<i>Zhiming Zhang, Changgen Jiang, Jiangang Deng</i>	

2-0088-1569282147	EVALUATION OF ON/OFF SCHEDULING PROTOCOLS FOR AD HOC AND SENSOR NETWORKS <i>Nedal Ababneh</i>	419
2-0089-1569282213	AN ENERGY-EFFICIENT ALGORITHM FOR OBJECT TRACKING IN WIRELESS SENSOR NETWORKS <i>Frank Yeong-Sung Lin and Cheng-Ta Lee, Yen-Yi Hsu</i>	424
2-0090-1569282299	A DISTRIBUTED CLASS-BASED ALTERNATIVE ROUTING UNDER A CONGESTION CONTROL ARCHITECTURE FOR LEO SATELLITE NETWORKS <i>Cao Huang, Falin Liu</i>	431
2-0091-1569282325	PERFORMANCE EVALUATION OF SELF-SIMILAR TRAFFIC IN MULTIMEDIA WIRELESS COMMUNICATION NETWORKS WITH POWER SAVING CLASS TYPE III IN IEEE 802.16E <i>Shunfu Jin, Wuyi Yue</i>	436
2-0092-1569282455	CHARACTERIZING PROTOCOL INTERACTION USING METAMODELING METHODOLOGY <i>Chen Ling, Wu Bing, Hu Zhi-wei, Liang Jia-hong</i>	441
2-0093-1569282459	CONCEPTUAL INTEGRATION OF WIRELESS SENSOR NETWORKS WITH 3D VIRTUAL ENVIRONMENTS <i>Adrian-Valentin NEDELICU, Doru TALABA, Vlad Cristian STOIANOVICI, Mihai MACHEDON-PISU, Iuliu SZEKELY</i>	446
2-0094-1569282463	FLOW-BASED TRANSMISSION SCHEDULING IN DELAY TOLERANT NETWORKS WITH BANDWIDTH CONSTRAINT <i>Zhenguo Yang, Liusheng Huang, Mingjun Xiao and Wang Liu</i>	451
2-0095-1569282529	CHARACTERIZING THE END-TO-END THROUGHPUT IN WMN USING MULTIPLE DIRECTIONAL ANTENNAS <i>Zhuyan Zhao, Jianhong Mu, Hao Guan</i>	456
2-0096-1569282555	BOUNDARY MONITORING ALGORITHMS FOR WIRELESS SENSOR NETWORKS OF GROUPING CAPABILITIES <i>Cheng-Ta Lee and Frank Yeong-Sung Lin</i>	461
2-0097-1569282624	VANETS-BASED REAL-TIME TRAFFIC DATA DISSEMINATION <i>Wenping Chen</i>	468
2-0098-1569282761	STEINER TREES GRID ROUTING PROTOCOL IN WIRELESS SENSOR NETWORKS <i>Chiu-Kuo Liang, Chih-Hsuan Lee, and Jian-Da Lin</i>	473
2-0099-1569282773	POWER ALLOCATION WITH MIN-MAX FAIRNESS FOR COGNITIVE RADIO NETWORKS <i>Lun Tang, Huan Wang, Qianbin Chen</i>	478
2-0100-1569282793	AN INTERFERENCE AVOIDANCE MULTIPATH ROUTING PROTOCOL BASED ON GREEDY FORWARDING IN MANETS	483

2-0101-1569282870	EMERGENCY COMMUNICATION SYSTEM BY HETEROGENEOUS WIRELESS NETWORKING	488
	<i>Yong Bai, Wencai Du, Zhengxin Ma, Chong Shen, Youling Zhou, Baodan Chen</i>	
2-0102-1569282925	EFFECTS OF THE USE OF AN IEEE 802.11 SNOOP AGENT ON TCP TIMEOUTS	493
	<i>Lucas Dias Palhao Mendes and Jose Marcos Camara Brito</i>	
2-0103-1569282930	A PERFORMANCE ANALYSIS OF VANETS ROUTING PROTOCOLS USING DIFFERENT MOBILITY MODELS	498
	<i>Nedal Ababneh and Houda Labiod</i>	
2-0104-1569282968	LEARNING AUTOMATA BASED SPECTRUM ALLOCATION IN COGNITIVE NETWORKS	503
	<i>LIU Lixia, HU Gang, XU Ming, PENG Yuxing</i>	
2-0105-1569283011	TUNNELLING-BASED ROUTE OPTIMIZATION FOR MOBILE IPV6	509
	<i>Deguang Le, Jinyi Chang</i>	
2-0106-1569283031	A NEW APPROACH TO IMPROVE THE SPECTRUM SENSING IN DISTRIBUTED MULTI-SENSOR NETWORKS	514
	<i>Wu Hao, Qiao Xiao-qiang, Zhao Hang-sheng</i>	
2-0107-1569283413	SIMULATION OF ADAPTIVE FEC MECHANISM FOR STREAMING 3D MODELS OVER WIRELESS NETWORKS	519
	<i>Xun Wang, Qing-Feng Chen, Bai-Lin Yang</i>	
2-0108-1569284351	IMPROVING PERFORMANCE OF ON DEMAND MULTICAST ROUTING BY USING FUZZY LOGIC	525
	<i>Alireza shams Shafigh, Kamran Abdollahi, Andeas J Kassler</i>	
2-0109-1569284671	A CONNECTED DOMINATING SET-BASED WEIGHTED CLUSTERING ALGORITHM FOR WIRELESS SENSOR NETWORKS	530
	<i>V. S. Anitha, M. P. Sebastian</i>	
2-0110-1569285579	DYNAMIC-ADJUSTING AODV ROUTING PROTOCOL BASED ON MAX HOP COUNT	535
	<i>Tianyi Xing, Yuanan Liu, Bihua Tang, Fan Wu</i>	
2-0111-1569285587	A RELIABLE MULTICAST FOR MANETS BASED ON OPPORTUNISTIC ROUTING AND NETWORK CODING	540
	<i>Yang WenZhong Huang ChuanHe, Wang Bo, Zhang ZhenYu, Wang Tong</i>	
2-0112-1569286182	INTERFERENCE-AWARE RADIO RESOURCE ALLOCATION TECHNIQUES FOR OFDMA-BASED WIRELESS NETWORKS	546
	<i>Furaih Alshaalan, Saleh Alshebeili, and Abdulkareem Adinoyi</i>	
2-0113-1569286733	PERFORMANCE COMPARISON OF HARD AND SOFT-DECISION TURBO CODED OFDM SYSTEMS	551
	<i>Savitha H. M., Muralidhar Kulkarni</i>	

2-0114-1569287285	AN EFFICIENT DYNAMIC ADJUSTING MAC PROTOCOL FOR MULTICHANNEL COGNITIVE WIRELESS NETWORKS <i>Chih-Shun Hsu, Yuh-Shyan Chen, Chih-En He</i>	556
2-0115-1569287901	A HIGH STABILITY LOW DROP-OUT REGULATOR WITH FAST TRANSIENT RESPONSE <i>Jiake Wang, Jinguang Jiang, Shanshan Li, Xu Gong and Qingyun Li</i>	561
2-0116-1569288001	A NOVEL VERTICAL HANDOFF DECISION ALGORITHM IN HETEROGENEOUS WIRELESS NETWORKS <i>Qing He</i>	566
2-0117-1569288005	DESIGN AND IMPLEMENTATION OF WIRELESS SENSOR AND ACTOR NETWORK FOR PRECISION AGRICULTURE <i>Jing Hu, Lianfeng Shen, Yang Yang, Ruichao Lv</i>	571
2-0118-1569288021	A HEURISTIC PROTOCOL COMBINED LOCATION SERVICE IN GEOGRAPHIC AD HOC ROUTING <i>You-fu Jiang, Guang-hui Wang, Hai-yang Jin</i>	576
2-0119-1569288263	A ROUTING STRATEGY BASED ON NODE MOVEMENT IN ZIGBEE NETWORKS <i>Jiasong Mu/Kaihua Liu</i>	583
2-0120-1569288301	AN ENERGY-BALANCING ROUTING PROTOCOL BASED ON AODV <i>Jingbo Yuan, Shunli Ding, Dan Zhang</i>	588
2-0121-1569288397	DESIGN AND IMPLEMENTATION OF LOW-POWER WIRELESS SENSOR NETWORKS FOR ENVIRONMENTAL MONITORING <i>Jue Yang, Xinrong Li</i>	593
2-0122-1569288456	PROTOCOL SUPPORT FOR BULK TRANSFER ARCHITECTURE <i>Upendra Rathnayake, Henrik Petander, Maximilian Ott, and Aruna Seneviratne</i>	598
2-0123-1569288501	SIMULATION AND EVALUATION OF ROUTING PROTOCOLS IN WIRELESS MOBILE AD HOC NETWORK <i>Majid Shakeri, Ebrahim Hosseini</i>	603
2-0124-1569288553	CROSS-LAYER HANDOFF VIA PREDICTIVE MULTIPLE PRE-REGISTRATIONS FOR QOS OF MOBILE MULTIMEDIA APPLICATIONS <i>Chien-Ting Liu, Te-Chih Wang, Ray-I Chang, Chia-Hui Wang</i>	608
2-0125-1569288573	NEW ALGORITHM FOR FRACTIONAL CHANNEL RESERVATION IN LIMITED FRACTIONAL GURAD CHANNEL POLICY <i>Leila Mortazavi Far, Zahra Firouzi</i>	613
2-0126-1569288703	IDEA1: A SYSTEMC-BASED SYSTEM-LEVEL SIMULATOR FOR WIRELESS SENSOR NETWORKS <i>Wan Du, Fabien Mieyeville</i>	618
2-0127-1569288789	RSP: ROBUST SMITH PREDICTOR FOR QUEUE MANAGEMENT IN	623

TIME-DELAY NETWORKS

Hao Wang, Zuohua Tian, Chenye Qiu

- 2-0128-1569288817 **VULNERABILITY ANALYSIS OF THE OPTIMIZED LINK STATE ROUTING PROTOCOL VERSION 2 (OLSRV2)** 628
Thomas Clausen, Ulrich Herberg
- 2-0129-1569294619 **QUERYING SENSOR NETWORKS WITH EXTENDED SQL** 634
Jun-Zhao Sun, and Jiehan Zhou
- 2-0130-1569296003 **A LEARNING-BASED ANOMALY DETECTION MODEL OF SQL ATTACKS** 639
Xu Ruzhi, Deng Liwu, Guo jian
- 2-0131-1569296006 **E-COMMERCE WEBSITE CREDIBLE MODEL BASED ON FUZZY GREY METHOD** 643
Hongying ZHAO, Ling WANG
- 2-0132-1569296008 **OPTIMAL POWER ALLOCATION IN COGNITIVE RELAY NETWORKS UNDER DIFFERENT POWER CONSTRAINTS** 647
Zhihui Shu, and Wen Chen
- 2-0133-1569296007 **SIMULATION AND IMPLEMENTATION OF A FUZZY CONTROLLED CHARGER FOR NI-CD BATTERIES** 653
M.H.Yazdanpanah lari, Mohammad Jafari, Maryam Salehi, Mohsen Imanieh, Zahra Malekjamshidi
- 2-0134-1569296010 **ALGORITHMS AND ALGORITHM ANALYSIS OF LOGICAL OR OPERATION OF VARIABLE PRECISION UPPER APPROXIMATION OPERATOR AND GRADE LOWER APPROXIMATION OPERATOR** 659
Xianyong Zhang, Zhiwen Mo, Lan Shu, Fang Xiong
- 2-0135-1569282549 **ASSURING INFORMATION QUALITY IN MEDICAL PLATFORM FOR U-HEALTHCARE SERVICE** 664
Ying Su, Latif Al-Hakim
- 2-0136-1569285755 **COMMUNITY-BASED TRUST MECHANISM IN P2P SOCIAL NETWORKS** 669
Jian Yu, Jianrong Wang, Xiao Liu, Mei Yu, Zheng Zhao, Yan Zhang
- 2-0137-1569288565 **SEMANTIC-BASED QUERY ROUTING IN P2P SOCIAL NETWORKS** 674
Mei Yu, Jianrong Wang, Qingjie Wang, Xuan Liu, Zheng Zhao, Yan Zhang
- 2-0138-1569286301 **VOLUNTEER-INSTIGATED CONNECTIVITY RESTORATION ALGORITHM FOR WIRELESS SENSOR AND ACTOR NETWORKS** 679
Muhammad Imran, Mohamed Younis, Abas Md Said, Halabi Hasbullah
- 2-0139-1569288685 **WIFI GPS BASED COMBINED POSITIONING ALGORITHM** 684
Soumaya Zirari, Philippe Canalda, François Spies