

2009 Fourth International Conference on Communications and Networking in China

(ChinaCom 2009)

**Xi'an, China
26-28 August 2009**

Pages 1-539



**IEEE Catalog Number: CFP0970A-PRT
ISBN: 978-1-4244-4336-9**

TABLE OF CONTENTS

CHINACOM 2009: COGNITIVE RADIO-I WCN - 01

STATISTICAL INFERENCE IN COGNITIVE RADIO NETWORKS	1
<i>Kwang-Cheng Chen, Sheng-Yuan Tu, Chung-Kai Yu</i>	
CHANNEL CAPACITY ANALYSIS OF SPECTRUM-SHARING WITH IMPERFECT CHANNEL SENSING	7
<i>Jun Sun, Hongbo Zhu</i>	
DISTRIBUTED POWER CONTROL WITH GRADUAL REMOVAL IN COGNITIVE RADIO CELLULAR NETWORK	11
<i>Jianmin Zhang, Zhaoyang Zhang, Guanding Yu1, Peiya Wang, Aiping Huang</i>	
SDR IMPLEMENTATION OF COGNITIVE RADIO: SENSING AND DISJOINT SPECTRUM ACCESS	16
<i>Lin Huang, Qiming Deng, Xiajun Qiao, Daqing Gu, Wenbo Wang, Hongwen Yang</i>	

CHINACOM 2009: FUTURE INTERNET RESEARCH CHALLENGES AND SERVICES MANAGEMENT – AIS-01

A PRE-AUTHENTICATION ARCHITECTURE IN WIFI&WIMAX INTEGRATED SYSTEM	21
<i>Liming Hou, Kai X. Miao</i>	
MANAGEMENT AND SERVICE-AWARE NETWORKING ARCHITECTURES (MANA) FOR FUTURE INTERNET: POSITION PAPER: SYSTEM FUNCTIONS, CAPABILITIES AND REQUIREMENTS	26
<i>Alex Galis, Henrik Abramowicz, Marcus Brunner, Danny Raz, Prosper Chemouil, Joe Butler, Costas Polychronopoulos, Stuart Clayman, Hermann De Meer, Thierry Coupaye, Aiko Pras, Krishan Sabnani, Philippe Massonet, Syed Naqvi</i>	
A REPUTATION MODEL FOR EVALUATING WEB SERVICES	39
<i>Haibao Chen, Shenghui Zhao, Guilin Chen</i>	
INTERNET SERVICE FAULT MANAGEMENT USING ACTIVE PROBING IN UNCERTAIN AND NOISY ENVIRONMENT	44
<i>L. W. Chu, S. H. Zou, S. D. Cheng, W. D. Wang, C. Q. Tian</i>	

CHINACOM 2009: COGNITIVE RADIO BASED NETWORKING AND SYSTEM – FCN-01

OUTAGE ANALYSIS OF COGNITIVE RELAYING WITH MULTIPLE RECEIVE ANTENNAS	49
<i>Yan Wu, Qinghai Yang, Jian Chen, Fenglin Fu, Kyung Sup Kwak</i>	
PERFORMANCE ANALYSIS OF COOPERATIVE SPECTRUM SENSING IN RAYLEIGH CHANNEL	54
<i>Yunxue Liu, Dongfeng Yuan, Mingyan Jiang, Jiali Xu, Ying Wu, Feijin Shi</i>	
POWER BARGAINING FOR AMPLIFY AND FORWARD RELAY CHANNEL	59
<i>Tachporn Sanguanpuak, R. M. A. P. Rajatheva</i>	
POWER ALLOCATION UNDER NOISE FLOOR UNCERTAINTY	64
<i>Sudarshan Guruacharya, R. M. A. P. Rajatheva</i>	

CHINACOM 2009: SOURCE CODING – ICT-01

A RELAXED PRACTICAL UNIVERSAL DECODING ALGORITHM FOR SLEPIAN-WOLF SYSTEM.....	69
<i>Guodong Xue, Lin Zhang, Yu Liu</i>	
LOW COMPLEXITY DCT-BASED DISTRIBUTED SOURCE CODING FOR HYPERSPECTRAL IMAGE	74
<i>Jianrong Wang, Rongke Liu</i>	
A DISTRIBUTED JOINT SOURCE-CHANNEL CODING SCHEME FOR MULTIPLE CORRELATED SOURCES	79
<i>Xuqi Zhu, Lin Zhang, Yu Liu</i>	

IDENTIFY MORE NON-GOLAY COMPLEMENTARY SEQUENCES FOR OFDM WITH LOW PMEPR USING MULTI-DIMENSIONAL ROOT PAIRS	85
<i>Yajun Wang, Cheng Zhao, Wen Chen, Jun Li</i>	

CHINACOM 2009: NETWORK SERVICE FOR MULTIMEDIA-I – MCS-01

A SMART EXPONENTIAL-THRESHOLD-LINEAR BACKOFF ALGORITHM TO ENHANCE THE PERFORMANCE OF IEEE 802.11 DCF.....	90
<i>Chih-Heng Ke, Chih-Cheng Wei, Tin-Yu Wu, Der-Jiunn Deng</i>	
AN MDSQ-BASED SEAMLESS MDVC IN P2P	95
<i>Shuyuan Zhu, Siu-Kei Au Yeung, Bing Zeng</i>	
A SCALABLE PEER-TO-PEER VIDEO-ON-DEMAND SYSTEM WITH ASYNCHRONOUS TRANSFER.....	100
<i>Zhao Peng, Gang Cheng, Zongkai Yang, Jingwen Chen</i>	

CHINACOM 2009: COOPERATIVE COMMUNICATIONS – WCN-02

COOPERATIVE HYBRID-ARQ PROTOCOL WITH NETWORK CODING.....	106
<i>Yue Sun, Ying Li, Xinmei Wang</i>	
AN EFFECTIVE POWER CONTROL SCHEME FOR A TWO-USER ONE-RELAY COOPERATIVE NETWORK	111
<i>Qingmin Meng, Rongfang Song, Baoyu Zheng</i>	
A COOPERATION BASED CACHE SCHEME IN UMTS/WLAN HYBRID NETWORK.....	116
<i>Xiaohui Chen, Weidong Wang, Guo Wei</i>	
ASYMPTOTIC BER BOUNDS FOR BICM-BASED MULTIPLE RELAY COOPERATIVE NETWORK UNDER AWGN AND RAYLEIGH FADING CHANNELS.....	121
<i>Shujaat Ali Khan Tanoli, Imran Khan, Nandana Rajatheva</i>	

CHINACOM 2009: WIRELESS AD HOC AND MESH NETWORKS-I – WCN-03

ROUTING IN IEEE 802.16 BASED DISTRIBUTED WIRELESS MESH NETWORKS.....	126
<i>Subrata Saha, Jun Cai, Attahiru Sule Alfa</i>	
A TRAFFIC-AWARE ROUTING ALGORITHM FOR IEEE 802.16J MULTIHOP RELAY NETWORKS.....	131
<i>Yeong-Sheng Chen, Chih-Chieh Lin, Sheng-De Wang</i>	
A MINIMUM ROUTE-INTERFERENCE ROUTING METRIC FOR MULTI-RADIO WIRELESS MESH NETWORKS	141
<i>Qinqin Chen, Bin Zhou, Zhifeng Zhao</i>	
M2IRI2: MULTI-POWER, MULTI-INTERFACE ROUTING PROTOCOL FOR INTRA/INTER-FLOW INTERFERENCE CONSIDERATIONS IN WIRELESS MESH NETWORKS.....	145
<i>Tzu-Chieh Tsai, Sung-Ta Tsai</i>	

CHINACOM 2009: APPLIED CRYPTOGRAPHY-I – NIS-01

ENHANCING ATTRIBUTE-BASED ENCRYPTION WITH ATTRIBUTE HIERARCHY	150
<i>Jin Li, Qian Wang, Cong Wang, Kui Ren</i>	
COPYRIGHT PROTECTION OF MULTIMEDIA CONTENT USING HOMOMORPHIC PUBLIC KEY CRYPTOSYSTEMS	155
<i>Zhongwei Sun, Yaning Ma</i>	
A NEW EFFICIENT SELF-CERTIFIED ONE-TIME SHORT SIGNATURE SCHEME FROM BILINEAR PAIRINGS	159
<i>Renwang Su</i>	

CHINACOM 2009: OPTICAL ETHERNET AND PASSIVE OPTICAL NETWORKS – OCN-01

DESIGN OF ACCESS NETWORK SYSTEM BASED ON 10G EPON	164
<i>Nian Xiong, Baomin Xu, Zhiwei Zeng, Shun'Er Chen, Weiping Liu</i>	

AN ANALYTICAL FRAMEWORK FOR A WDM EPON WITH DIFFERENTIATED SERVICES	168
<i>Hui-Tang Lin, Chia-Lin Lai, Wang-Rong Chang, Sheng-Jhe Hong</i>	
AN AWG-BASED WDM PON WITH WAVELENGTH MULTICASTING FOR RESTRICTED CUSTOMERS	174
<i>Xuan Trung Le, Sugang Xu, Yoshiaki Tanaka</i>	

CHINACOM 2009: DETECTION FOR MIMO SYSTEMS – SPC-01

MULTI-ARY SOVA DECODING ALGORITHM FOR UNITARY SPACE-TIME SYMBOL-BASED TURBO CODE	179
<i>Dapeng Zhang, Ju Liu, Lina Zheng, Hongbo Yuan</i>	
AN EXTENDED SEMIDEFINITE-RELAXATION METHOD FOR MIMO DETECTION OF HIGH-ORDER QAM SIGNALS.....	184
<i>Shu Cai, Kehu Yang</i>	
MULTIUSER DETECTION FOR QO-STBC MC-CDMA MIMO SYSTEMS.....	188
<i>Jung-Lang Yu, Chun-Hsien Wu</i>	
A HIGH PERFORMANCE LOW COMPLEXITY JOINT TRANSCEIVER DESIGN FOR MIMO COMMUNICATIONS	193
<i>Jian-Lung Tzeng, Chien-Jen Huang, Hsi-Pin Ma, Pangan Ting</i>	

CHINACOM 2009: OFDM/OFDMA – WCN-04

AN IMPROVED OFDM-MSK SYSTEM FOR WIRELESS COMMUNICATIONS	198
<i>Weiwen Weng, Yuan'An Liu, Hefei Hu, Dongming Yuan</i>	
CAPACITY MAXIMIZATION FOR OFDM TWO-HOP RELAY SYSTEM WITH SEPARATE POWER CONSTRAINTS	203
<i>Wenyi Wang, Renbiao Wu</i>	
SIDELobe SUPPRESSION USING EXTENDED ACTIVE INTERFERENCE CANCELLATION WITH SELF-INTERFERENCE CONSTRAINT FOR COGNITIVE OFDM SYSTEM	208
<i>Daiming Qu, Zhiqiang Wang, Tao Jiang, Mahmoud Daneshmand</i>	
BLIND ESTIMATION OF MULTI-CFO FOR DISTRIBUTED MIMOOFDM SYSTEM IN FREQUENCY-SELECTIVE FADING CHANNELS	213
<i>Yingtao Niu, Qun Chen, Jianzhong Chen</i>	

CHINACOM 2009: CONTROL AND ELASTICITY – AIS-02

A MAC LAYER CONGESTION CONTROL MECHANISM IN IEEE 802.11 WLANS.....	218
<i>Kai Shi, Yantai Shu, Juan Feng</i>	
A NEW VOIP CALL ADMISSION CONTROL BASED ON BLOCKING PROBABILITY CALCULATION	223
<i>Chin-Ling Chen</i>	
CONTROL AND COMMUNICATION MECHANISMS OF A SOFTROUTER.....	229
<i>Ting Luo, Shaohua Yu</i>	
IMPROVING ROBUSTNESS AND FAIRNESS ON BITTORRENT-LIKE P2P SYSTEMS	235
<i>Fenglin Qin, Ju Liu, Lina Zheng</i>	

CHINACOM 2009: NEST GENERATION NETWORKING-I – FCN-02

DFMAC: DTN-FRIENDLY MEDIUM ACCESS CONTROL FOR WIRELESS LOCAL AREA NETWORKS.....	240
<i>Hao Liang, Weihua Zhuang</i>	
IPTV TRAFFIC MANAGEMENT USING TOPOLOGY-BASED HIERARCHICAL SCHEDULING IN CARRIER ETHERNET TRANSPORT NETWORKS.....	247
<i>Hao Yu, Ying Yan, Michael S. Berger</i>	
TOWARDS THE DEVELOPMENT OF AN AUTONOMIC NETWORK MANAGEMENT ARCHITECTURE.....	252
<i>John Strassner, James Won-Ki Hong</i>	

NETWORK OPERATOR INDEPENDENT RESILIENT OVERLAY FOR MISSION CRITICAL APPLICATIONS (ROMCA)	258
<i>Xian Zhang, Chris Phillips</i>	

CHINACOM 2009: LDPC CODING – ICT-02

A SIMPLIFIED DECODING ALGORITHM FOR NONBINARY LDPC CODES	263
<i>Ce-Lun Liu, Jian-Ping An, Xiang-Yuan Bu</i>	
PARALLEL ENCODABLE NONBINARY QUASI-CYCLIC LDPC CODES WITH NEAR-CAPACITY PERFORMANCE	268
<i>Chao Chen, Baoming Bai, Ruijia Yuan, Xinmei Wang</i>	
AN IMPROVED ALGORITHM FOR CONSTRUCTING QC-LDPC CODES BASED ON THE PEG ALGORITHM	273
<i>Zhiyong Fan, Weibo Zhang, Xingcheng Liu, Haohui Cheng</i>	
BIT-WISE SHORTENING OF NONBINARY LDPC CODES USING THEIR BINARY IMAGES	277
<i>Lin Zhou, Baoming Bai, Ming Xu, Chao Chen</i>	

CHINACOM 2009: NETWORK SERVICE FOR MULTIMEDIA-II – MCS-02

ADAPTIVE BANDWIDTH ALLOCATION FOR LAYERED VIDEO STREAMS OVER WIRELESS BROADCAST CHANNELS	280
<i>Jen-Wen Ding, Zhong-Yong Chen, Wei-Tsong Lee, Wei-Ming Chen</i>	
A SIMULATION MECHANISM FOR VIDEO DELIVERY RESEARCHES	285
<i>Zhiwei Yan, Guizhong Liu, Rui Su, Qing Zhang, Xiaoming Chen, Lishui Chen</i>	
SIMULATIVE INVESTIGATION OF NETWORK SERVICES FOR RESILIENT PACKET RING IN STEERING MODE	290
<i>Wen-Fong Wang, Yu-Siang Sun, Ching-Sung Lu</i>	

CHINACOM 2009: COGNITIVE RADIO-II – WCN-05

ANALYSIS OF EFFECT OF PRIMARY USER TRAFFIC ON SPECTRUM SENSING PERFORMANCE	295
<i>Tinghuai Wang, Yunfei Chen, Evor L. Hines, Bo Zhao</i>	
JOINT RATE AND POWER CONTROL BASED ON GAME THEORY IN COGNITIVE RADIO NETWORKS	300
<i>Chun-Gang Yang, Jian-Dong Li, Wei-Ying Li</i>	
OBSERVING CORRELATION AWARE (OCA) ROUTING METRIC IN COGNITIVE RADIO NETWORKS	305
<i>Chunjing Hu, Guang Lei, Rongrong Qian</i>	
A WIDEBAND MULTI-RESOLUTION SPECTRUM SENSING METHOD BASED ON BELIEF PROPAGATION	310
<i>Peiya Wang, Zhaoyang Zhang, Guanding Yu</i>	

CHINACOM 2009: RESOURCE MANAGEMENT OF OPTICAL NETWORKS – OCN-02

INTEGRATED RESOURCE MANAGEMENT FOR HYBRID OPTICAL WIRELESS (HOW) NETWORKS	315
<i>Ying Yan, Hao Yu, Henrik Wessing, Lars Dittmann</i>	
DIFFERENTIATED-RESILIENCE PROVISIONING OF SERVICE LEVEL AGREEMENTS FOR THE GMPLS/ASON NETWORKS	320
<i>Zhi Tan, Hongyu Cao</i>	
A MULTI-LAYER ADAPTIVE PROTECTION SCHEME FOR IP/MPLS-OVER-WDM NETWORKS	326
<i>Taiming Feng, Lu Ruan</i>	
A FUZZY FAIRNESS CONTROL MECHANISM IN RESILIENT PACKET RING	332
<i>Wen-Shiang Tang, Shang-Hua Liu, Chung-Ju Chang</i>	

CHINACOM 2009: ESTIMATION AND DETECTION – WCN-06

LOW COMPLEXITY ITERATIVE INTERFERENCE ESTIMATION AND DECODING FOR OFDM-BASED COGNITIVE RADIO SYSTEMS.....	337
<i>Youwen Yi, Daiming Qu, Tao Jiang, Guangxi Zhu, Jun Chen, Zhiqiang Wang</i>	
PERFORMANCE ANALYSIS OF MULTITONE DIRECT-SEQUENCE SPREAD SPECTRUM IN THE PRESENCE OF CARRIER FREQUENCY OFFSET	342
<i>Hongxiang Li, David W. Matolak</i>	
NEW ITERATIVE ALGORITHM FOR QR DETECTION.....	348
<i>Wenbai Chen, Wei Li, Xiaopin Zhang, Peida Ye</i>	
A NEW UWB PULSE DESIGN METHOD FOR MULTIPLE NARROW-BAND INTERFERENCE AND WIDE-BAND INTERFERENCE MITIGATION	352
<i>Xu Lu, Wen Chen</i>	

CHINACOM 2009: APPLIED CRYPTOGRAPHY-II – NIS-02

ABOUT THE SECURITY FOR HW THRESHOLD PROXY SIGNATURE SCHEME WITH SELF-CERTIFIED PUBLIC KEY SYSTEM	357
<i>Fengying Li, Qingshui Xue, Jiping Zhang, Zhenfu Cao</i>	
COMMENT ON KANG ET AL.'S IDENTITY-BASED STRONG DESIGNATED VERIFIER SIGNATURE SCHEME	362
<i>Renwang Su</i>	
A NEW ATTACK STRATEGY FOR BB84 PROTOCOL BASED ON BREIDBART BASIS	365
<i>Dan Liu, Chang-Xing Pei, Dong-Xiao Quan, Bao-Bin Han, Nan Zhao</i>	
ONE-WAY QUANTUM SECURE DIRECT COMMUNICATION BASED ON SINGLE PHOTONS.....	368
<i>Dong-Xiao Quan, Chang-Xing Pei, Dan Liu, Nan Zhao</i>	

CHINACOM 2009: ARCHITECTURE AND IMPLEMENTATION FOR COMMUNICATIONS – SPC-02

PARALLEL AND MEMORY-EFFICIENT REALIZATION OF KSP/KNN ALGORITHM.....	372
<i>Rongrong Qian, Tao Peng, Yuan Qi, Wenbo Wang</i>	
A LOW-POWER MULTI-BIT DELTA-SIGMA MODULATOR FOR AUDIO SIGNAL PROCESSING	377
<i>Wan-Rone Liou, Cang-Jhen Lin, Mei-Ling Yeh, Hao-Yuan Siao</i>	
IMPLEMENTATION OF TRAINING-SEQUENCE BASED CARRIER FREQUENCY OFFSET ESTIMATOR WITH MULTI-CORRELATION-LAG	382
<i>Xue Dong, Kewu Peng, Jian Song</i>	
ON THE DESIGN OF FARROW INTERPOLATOR FOR OFDM RECEIVERS WITH ASYNCHRONOUS IF SAMPLING	387
<i>Yih-Min Chen</i>	

CHINACOM 2009: WIRELESS SENSOR NETWORKS – WCN-07

DESIGN OF A LARGE SCALE MULTI-CLUSTER WIRELESS SENSOR NETWORK	392
<i>Dongmei Zhao, Xuemin (Sherman) Shen</i>	
NETWORK LIFETIME MAXIMIZATION BY D&C APPROACH IN WIRELESS SENSOR NETWORKS.....	397
<i>Hui Wang, Nazim Agoulmine, Maode Ma, Yanliang Jin</i>	
IMPROVED DIRECTED DIFFUSION-BASED MOBILE AGENT MECHANISM FOR WIRELESS SENSOR NETWORKS.....	403
<i>Fei Jiang, Haoshan Shi, Zhiyan Xu, Xiangjun Dong</i>	
AN ADAPTIVE GTS ALLOCATION MECHANISM IN IEEE 802.15.4 FOR VARIOUS RATE APPLICATIONS	408
<i>Haijun Zhang, Shulin Xin, Rong Yu, Zheng Lin, Yanyan Guo</i>	

CHINACOM 2009: TRAFFIC & RESOURCE MANAGEMENT – AIS-03

A BALANCED AND ROBUST SPANNING TREE ALGORITHM FOR OVERLAY MULTICAST	413
<i>Wendao Zhao, Nengwei Hua</i>	
ANALYSIS OF FRAME TRAFFIC CHARACTERISTICS IN IEEE 802.11 NETWORKS	418
<i>Ke Zhang, Xiaohu Ge, Chuang Liu, Lin Xiang</i>	
FLOW-LEVEL BASED ADAPTIVE LOAD BALANCING IN MPLS NETWORKS	423
<i>Xiaoming He, Hong Tang, Mingying Zhu, Qingxin Chu</i>	
GNUTELLABT: MERGING GNUTELLA AND BITTORRENT FOR EFFICIENT P2P RESOURCE SHARING	429
<i>Yong Liu, Xucheng Luo, Yong Wang, Zhiguang Qin</i>	

CHINACOM 2009: NEXT GENERATION NETWORKING-II – FCN-03

PERFORMANCE EVALUATION OF OPPORTUNISTIC TEMPORAL-PAIRING ACCESS NETWORK (OPAN)	434
<i>Lei Wu, Bjorn Landfeldt</i>	
ADAPTIVE BANDWIDTH ALLOCATION MODEL FOR INTERNET-ATTACHED WIMAX NETWORKS.....	439
<i>Tsang-Ling Sheu, Kai-Chen Huang</i>	
FUZZY ACTIVE PERIOD ADAPTATION FOR DYNAMIC SPECTRUM ACCESS IN IEEE 802.16H SYSTEM.....	444
<i>Chung-Ju Chang, Fang-Ching Ren, Hao-Hsiang Sun</i>	
AN ACTIVE ROUTING PREFIX CACHING ALGORITHM FOR IP ADDRESS LOOKUP	449
<i>Guo-Sheng Zhu, Shao-Hua Yu, Jin-You Dai</i>	

CHINACOM 2009: CODING APPLICATIONS – ICT-03

A CODEWORD-INTERLEAVED TRANSMISSION SCHEME WITH NOVEL TURBO EQUALIZATION FOR ISI CHANNELS	455
<i>Yeong-Luh Ueng, Yen-Ming Chen, Chang-Han Kuo</i>	
A CONSTRUCTION METHOD OF QUANTUM LOW DENSITY PARITY CHECK CODE BASED ON PROJECTIVE GEOMETRY	460
<i>Sheng-Mei Zhao, Xiu-Li Zhu, Guo-Jun Sun</i>	
SIDE-INFORMATION-ADAPTIVE LDPC CODING FOR DISTRIBUTED MULTI-VIEW VIDEO CODING OVER WIRELESS SENSOR NETWORKS.....	465
<i>Bo Zhang, Lin Zhang, Yu Liu, Xiaojun Jing</i>	
SECRET COMMUNICATIONS OVER SEMI-DETERMINISTIC BROADCAST CHANNELS.....	470
<i>Yingxin Zhao, Pingping Xu, Yongdong Zhao, Weixing Wei, Yiyuan Tang</i>	

CHINACOM 2009: CODING AND QUALITY OF SERVICE – MCS-03

ADVANCED TECHNOLOGIES FOR HIGH-PERFORMANCE VIDEO CODING	474
<i>Ming Li, Yilin Chang, Fuzheng Yan, Shuai Wan</i>	
DYNAMIC TABLE LOOKUP FOR THE ENTROPY CODING OF P-FRAMES IN H.264.....	479
<i>Siu-Kei Au Yeung, Bing Zeng</i>	
A LOW TIME-CONSUMING SMART FEC RATE ALLOCATION SCHEME FOR ROBUST WIRELESS JPEG 2000 IMAGES AND VIDEO TRANSMISSION	484
<i>Max Agueh, Stefan Ataman, Henoc Soude</i>	
ADAPTABLE PACKET SIGNIFICANCE DETERMINATION MECHANISM FOR H.264 VIDEOS OVER IP DUAL STACK NETWORKS.....	489
<i>Chu-Chuan Lee, Ya-Ju Yu, Pao-Chi Chang</i>	

CHINACOM 2009: RANDOM ACCESS: PROTOCOLS AND ANALYSIS – WCN-08

APPROXIMATE QUEUEING PERFORMANCE OF A MULTIPACKET RECEPTION SLOTTED ALOHA SYSTEM WITH AN EXPONENTIAL BACKOFF ALGORITHM.....	494
<i>Jun-Bae Seo, Victor Leung</i>	

MAC PROTOCOLS BASED ON BUSY DURATION FOR UNDERWATER ACOUSTIC NETWORKS.....	499
<i>Yongxin Zhong, Jianguo Huang</i>	
PERFORMANCE IMPROVEMENT OF IEEE 802.11E TO SUPPORT QOS IN SATURATED CONDITIONS	503
<i>Jyh-Horng Wen, Chien-Erh Weng</i>	
PERFORMANCE ANALYSIS OF MULTIUSER RECEIVERS FOR LARGE CDMA RANDOM ACCESS SYSTEMS OVER RAYLEIGH FADING CHANNELS	509
<i>Kai Yu, Pingzhi Fan, Li Hao</i>	

CHINACOM 2009: WIRELESS AD HOC AND MESH NETWORKS-II – WCN-09

A HYACINTH-BASED JOINT ROUTING AND CHANNEL ASSIGNMENT ALGORITHM FOR MULTI-CHANNEL MULTI-INTERFACE WIRELESS MESH NETWORKS.....	514
<i>Bin Zhou, Zhifeng Zhao, Qingin Chen, Aiping Huang</i>	
A NETWORKING FRAMEWORK BASED ON ORTHOGONAL RADIO CHANNELS FOR WIRELESS MESH NETWORKS	519
<i>D. Manjunath, S. V. Gopalaiah, Balaji Palanisamy</i>	
RELAY AUCTION ALGORITHMS FOR DOWNLINK BANDWIDTH ALLOCATION IN IEEE 802.16-BASED OFDM/TDMA WIRELESS MESH NETWORKS.....	524
<i>Zhen Kong, Yu-Kwong Kwok</i>	
OPTIMIZATION OF ENERGY CONSUMPTION IN RECTANGULAR AD-HOC WIRELESS NETWORKS.....	529
<i>Wei Feng, Hamada Alshaer, Jaafar M. H. Elmirghani</i>	

CHINACOM 2009: INTRUSION DETECTION AND AVOIDANCE – NIS-03

AN EFFICIENT HARDWARE ARCHITECTURE FOR DEEP PACKET INSPECTION IN HYBRID INTRUSION DETECTION SYSTEMS.....	534
<i>Mohammad Amin Taherkhani, Maghsoud Abbaspour</i>	
USING ATTACK GRAPHS AND INTRUSION EVIDENCES TO EXTRAPOLATE NETWORK SECURITY STATE.....	540
<i>Shaojun Zhang, Lan Li, Jianhua Li, Shanshan Song, Xiuzhen Chen</i>	

CHINACOM 2009: APPLICATIONS OF OPTICAL NETWORKS – OCN-03

DESIGN AND PERFORMANCE ANALYSIS OF A HYBRID OCDMA/WDMA SYSTEM WITH THE SUB-BAND APPLICATION.....	546
<i>Po-Hao Chang, Szu-Chia Liao, Jun-Ren Chen</i>	
DESIGN OF METAL-GRATING-BASED SURFACE PLASMON INTERCONNECTOR BETWEEN THIN METAL FILMS.....	551
<i>Dawoon Choi, Il-Min Lee, Yongjun Lim, Junghyun Park, Byoungcho Lee</i>	
LOW CONTRAST DOUBLE SLOT STRUCTURE BASED OPTOMECHANICAL SENSOR.....	555
<i>Muddassir Iqbal, Zheng Zheng, Jiansheng Liu</i>	

CHINACOM 2009: COOPERATIVE COMMUNICATIONS AND OFDM SYSTEM – SPC-03

RATE REGIONS OF A TWO-WAY GAUSSIAN RELAY CHANNEL.....	559
<i>Jianquan Liu, Meixia Tao, Youyun Xu</i>	
DISTRIBUTED BEAMFORMING IN MULTI-USER COOPERATIVE WIRELESS NETWORKS	564
<i>Yimin Zhang, Xin Li, Moeness Amin</i>	
DOPPLER ICI CANCELLATION FOR SPACE-TIME TRELLIS CODED MIMO-OFDM SYSTEMS	569
<i>Che-Chen Chou, Ying-Jen Yen, Jen-Ming Wu, Pangan Ting</i>	
NEW OFDM STRUCTURE TO SMOOTH FREQUENCY NOTCHES OF WIRELESS CHANNEL.....	573
<i>Yafei Hou, Tomohiro Hase</i>	

CHINACOM 2009: DELAY/DISRUPTION TOLERANT NETWORKS – WCN-10

MIDTONE: MULTICAST IN DELAY TOLERANT NETWORKS.....	578
<i>Zunnun Narmawala, Sanjay Srivastava</i>	
A FLEXIBLE MULTICAST ROUTING SCHEME FOR MULTICASTING IN DELAY TOLERANT NETWORKS.....	586
<i>Lei Yin, Hui-Mei Lu, Ke Long, Yuan-Da Cao</i>	
WEIGHTED EPIDEMIC ROUTING FOR DISRUPTION TOLERANT NETWORKS	591
<i>Xin Wang, Yantai Shu, Zhigang Jin, Huan Chen</i>	
A NOVEL ENERGY-EFFICIENT REPLICA ALLOCATION WITHIN ONEHOP GROUPS (ERAOG) IN MANET	596
<i>Yun-Sheng Yen, Jheng-Ze Wu, Bing-Yan Chung, Han-Chieh Chao</i>	

CHINACOM 2009: FLOWS & BANDWIDTH MANAGEMENT – AIS-04

A TWO-TIME SCALE MDP-BASED ROUTING ALGORITHM FOR DCLC PROBLEM	605
<i>Yue Han, Zeng-Ji Liu, Zhi-Liang Qiu, Quan Zhou</i>	
IDENTIFYING ELEPHANT FLOWS BY BUILDING A REVERSIBLE COUNTING BLOOM FILTER	610
<i>Weijiang Liu, Dandan Huo, Hongbo Liu</i>	
MULTI-STREAM BANDWIDTH ESTIMATION FOR SCTP IN HIGH-SPEED NETWORKS.....	614
<i>Rung-Shiang Cheng, Chien-Feng Lai, Yueh-Min Huang, I-Che Chou</i>	
REDUCING CROSS-NETWORK TRAFFIC IN P2P SYSTEMS VIA LOCALIZED NEIGHBOR SELECTION	618
<i>Lijie Sheng, Haoyu Wen</i>	

CHINACOM 2009: NEXT GENERATION WIRELESS SYSTEMS AND SERVICES PERFORMANCE – FCN-04

PERFORMANCE MODELING AND EVALUATION USING QUEUING PETRI NETS IN IMS.....	623
<i>An'An Luo, Chuang Lin, Kai Wang, Fengyuan Ren, Limin Miao</i>	
CPDCF FOR IEEE 802.11 WLANS	628
<i>Chia-Mei Chen, Chi-Hsuan Wang, Mingzoo Wu</i>	
A SELF-STABILIZING LEADER ELECTION ALGORITHM IN ONEHOP DHT	633
<i>Guang-Ji Wang, Hai-Qiang Xue, Bing Wei</i>	
DYNAMIC POWER ALLOCATION FOR MULTI-HOP LINEAR NON-REGENERATIVE RELAY NETWORKS.....	638
<i>Tingshan Huang, Wen Chen, Jun Li</i>	

CHINACOM 2009: BOOLEAN FUNCTION/NETWORK INFORMATION THEORY – ICT-04

PUNCTURED BINARY ARRAY PAIR WITH TWO-LEVEL AUTOCORRELATION	643
<i>Jiong Shi, Ting Jiang, Zheng Zhou, Yabin Ye</i>	
NEW CONSTRUCTION OF BOOLEAN FUNCTIONS WHICH SATISFY MULTIPLE CRYPTOGRAPHIC CRITERIA	647
<i>Yongzhuang Wei, Ning Ouyang, Yupu Hu</i>	
ON CROSS-CORRELATION PROPERTIES OF BOOLEAN FUNCTIONS	653
<i>Yu Zhou, Min Xie, Guozhen Xiao</i>	
QUANTITATIVE ANALYSIS FOR COMPUTATION DELAY INDUCED BY NETWORK CODING.....	658
<i>Qingwen Chen, Jiaqing Huang, Wenqing Cheng, Hui Li</i>	
WIRETAP NETWORKS II WITH PARTIAL INFORMATION LEAKAGE.....	663
<i>Zhixue Zhang</i>	

CHINACOM 2009: SPECTRUM SENSING, ESTIMATION AND EQUALIZATION – SPC-04

DISTRIBUTED ESTIMATION UNDER THE MINIMAX CRITERION	668
<i>Tao Wu, Qi Cheng</i>	

ANALYSIS OF SECONDARY USER SELECTION IN COLLABORATIVE SPECTRUM SENSING	673
<i>Yunfei Chen</i>	
MULTI-TAP EQUALIZATION ALGORITHM FOR THE OFDM SYSTEM BASED ON THE FRACTIONAL FOURIER TRANSFORM.....	678
<i>Enqing Chen, Pengge Ma, Lin Qi, Ran Tao</i>	

CHINACOM 2009: CROSS-LAYER DESIGN – WCN-11

A CROSS-LAYER SCHEDULING SCHEME FOR SDMA SYSTEMS WITH LIMITED FEEDBACK	682
<i>Kai Sun, Yong Tie, Wei Huang, Guang-Ji Wang</i>	
JOINT OPTIMAL POWER ALLOCATION, RELAY SELECTION AND SUBCHANNEL PAIRING IN OFDM BASED REGENERATIVE RELAY NETWORKS	687
<i>Yu Zhang, Rui Yin, Guanding Yu, Zhaoyang Zhang, Jietao Zhang</i>	
PERFORMANCE ANALYSIS AND COMPARISON OF HARQ SCHEMES IN CROSS LAYER DESIGN.....	693
<i>Changchun Li, Lingling Xu, Dongfeng Yuan, Feijin Shi</i>	
JOINT SUBCARRIER-RELAY ASSIGNMENT AND POWER ALLOCATION FOR DECODE-AND-FORWARD MULTI-RELAY OFDM SYSTEMS	698
<i>Hua Mu, Meixia Tao, Wenbing Dang, Yao Xiao</i>	

CHINACOM 2009: SYSTEM/LINK PERFORMANCE EVALUATION – WCN-12

LINK LEVEL PERFORMANCE OF SC-FDMA WITH SDMA, TURBO EQUALIZATION AND REAL CHANNEL ESTIMATION	704
<i>Dongming Wang, Wenjin Wang, Xiangyang Wang, Byung-Jang Jeong, Soo Chang Kim, Jae Young Ahn</i>	
UPLINK PERFORMANCE ANALYSIS OF VOIP SERVICES IN TDD-OFDMA WIMAX NETWORKS.....	709
<i>Ke Yu, Xuan Wang, Lin Zhang</i>	
A MULTI-HOMING EXTENSION OF WIRELESS NODE IMPLEMENTATION IN NS-2.....	714
<i>Qinghua Wang, Tingting Zhang</i>	
ENHANCED COOPERATIVE SOURCE DIVERSITY FOR MULTICAST SERVICES WITH HETEROGENEOUS COVERAGE.....	720
<i>Yan Chen, Shunqing Zhang, Vincent K. N. Lau, Guanding Yu, Zhifeng Zhao, Peiliang Qiu</i>	

CHINACOM 2009: MOBILE AD HOC NETWORKS AND SENSOR NETWORKS – FCN-05

HIERARCHICAL DATA AGGREGATION MODEL AND GROUP MANAGEMENT FOR WIRELESS SENSOR NETWORKS	725
<i>Sheng-Tzong Cheng, Yen-Fan Lai, Chi-Hsuan Wang, Red-Tom Lin</i>	
ADAPTIVE ROUTE SELECTION IN MOBILE AD HOC NETWORKS.....	731
<i>Yuh-Chung Lin, Chu-Wei Ke</i>	
A CLUSTER-BASED ROUTING PROTOCOL FOR WIRELESS SENSOR NETWORKS WITH ADJUSTABLE CLUSTER SIZE	736
<i>Wei Kuang Lai, Chin-Shiuh Shieh, Yung-Tai Lee</i>	

CHINACOM 2009: DISTRIBUTED SYSTEMS SECURITY – NIS-04

SURVIVABILITY EVALUATION OF DISTRIBUTED SERVICE USING STOCHASTIC PETRI NET.....	741
<i>Xianjun Sun, Chuang Lin, Weidong Liu, Yanping Xiao</i>	
TOWARD AN EVALUATION FRAMEWORK FOR REPUTATION SYSTEMS IN AUTONOMIC COMPUTING NETWORKS.....	746
<i>Zonghua Zhang, Youki Kadobayashi, Farid Nait-Abdesselam</i>	
INCREMENTAL PID-LIKE ALGORITHM BASED TRUST MODEL IN PEER-TO-PEER NETWORKS.....	751
<i>Jianguo Chen, Wai K. Yeap, Stefan D. Bruda</i>	

AN AUTHENTICATION SCHEME FOR THREE-PARTY MOBILE CONDITIONAL ACCESS SYSTEM(CAS)	756
<i>Yi-Chun Zhang, Cheng Yang, Jian-Bo Liu, Jia-Yin Tian</i>	

CHINACOM 2009: DECODING – ICT-05

ADAPTIVE SNR ESTIMATION BASED DECODING ALGORITHM FOR BLOCK TURBO CODES	761
<i>Xingcheng Liu, Kang Wang</i>	
AN ITERATIVE SOFT-DECISION DECODING ALGORITHM FOR CONVENTIONAL CONCATENATED CODES	767
<i>Jingwei Zhang, Jiaying You, Lishuang Lu, Xiao Ma</i>	
IMPROVED PARALLEL WEIGHTED BIT FLIPPING DECODING OF FINITE GEOMETRY LDPC CODES	772
<i>Guangwen Li, Dashe Li, Yuling Wang, Wenyan Sun</i>	
STUDY ON THE MAP-BASED DECODING ALGORITHM OF TURBO CODES OVER THE ASYMMETRIC CHANNEL	777
<i>Xingcheng Liu, Jingying Zhou</i>	

CHINACOM 2009: RESOUCCE ALLOCATION – WCN-13

OPPORTUNISTIC AND HIERARCHICAL SCHEDULING ALGORITHMS IN OFDMA RELAYING NETWORKS	782
<i>Wang Ying, Wu Tong, Huang Jing</i>	
FRAME SYNCHRONIZATION AND BUFFER OVERFLOW CONTROL SCHEMES FOR HANDOVER IN HSDPA NETWORKS	787
<i>Yeong-Sheng Chen, Mu-Sheng Liao</i>	
OPTIMAL RESOURCE ALLOCATION IN OFDM MULTIHOP SYSTEM	796
<i>Wenyi Wang, Renbiao Wu</i>	
LOW COMPLEXITY MULTIUSER SCHEDULING IN MIMO BROADCAST CHANNEL WITH CHANNEL QUANTIZATION	800
<i>Feng She, Hanwen Luo, Wen Chen</i>	
A NOVEL HANDOVER SCHEME WITH RELAY TECHNIQUE IN GSM-R NETWORK	807
<i>Zheng Xiang, Fei Yang</i>	

CHINACOM 2009: SERVICE-AWARE NETWORKING – AIS-05

TOWARDS PREDICTABLE LARGE-SCALE REAL-TIME DELIVERY	811
<i>Yingfei Dong, David H. C. Du</i>	
A DELAY-BASED ACK SCHEME FOR VOIP SERVICES IN AN IEEE 802.11E INFRASTRUCTURE NETWORK	816
<i>Wen-Li Li, Chunhung Richard Lin, Chih-Heng Ke, Kuang-Yuan Tung</i>	
BALANCED AND RESILIENT APPLICATION LAYER MULTICAST	821
<i>Jun Yue, Chanle Wu, Shi Cheng, Gang Ye, Lian He, Chanle Wu</i>	
DISTRIBUTED CONTEXT SUPPORT FOR UBIQUITOUS MOBILE AWARENESS SERVICES	827
<i>Theo Kanter, Stefan Pettersson, Stefan Forsström, Victor Kardeby, Roger Norling, Jamie Walters, Patrik Österberg</i>	

CHINACOM 2009: VEHICULAR NETWORKS – FCN-06

ACCELERATING AUTHENTICATED EMERGENCE MESSAGE PROPAGATION TO MITIGATE CHAIN-REACTION ACCIDENTS IN HIGHWAY TRAFFIC	832
<i>Rongxing Lu, Xiaodong Lin, Haojin Zhu, Xuemin (Sherman) Shen</i>	
SPRAY AND HOP: EFFICIENT UTILITY-MOBILITY ROUTING FOR INTERMITTENTLY CONNECTED MOBILE NETWORKS	838
<i>Wei Kuang Lai, Wen-Kai Chung, Jian-Bang Tsai, Chin-Shiuh Shieh</i>	
A-ADHOC: AN ADAPTIVE REAL-TIME DISTRIBUTED MAC PROTOCOL FOR VEHICULAR AD HOC NETWORKS	843
<i>Limin Miao, Fengyuan Ren, Chuang Lin, Anan Luo</i>	

CHINACOM 2009: BLOCK CODES – ICT-06

DESIGN OF HIGH-RATE LDGM CODES	849
<i>Puripong Suthisopapan, Mongkol Kupimai, Rangsan Tongta, Virasit Imtawil</i>	
FULL DIVERSITY BLIND SPACE-TIME BLOCK CODES	853
<i>Jian-Kang Zhang</i>	
ON A CLASSIFICATION OF CYCLIC SUBCODE CHAINS.....	858
<i>Yuan Luo, A. J. Han Vinck</i>	

CHINACOM 2009: BEAMFORMING AND CHANNEL ESTIMATION AND SYNCHRONIZATION – SPC-05

SUB-OPTIMUM SUPERIMPOSED TRAINING DESIGN FOR ESTIMATING OF MOBILE OFDM CHANNELS	861
<i>Qinghai Yang, Fenglin Fu, Yan Wu, Kyung Sup Kwak</i>	
PERFORMANCE ENHANCEMENT IN TDD-HSUPA WITH SUBARRAY BEAMFORMING	866
<i>Yang Liu, Wenbo Wang, Hui Zhao, Kan Zheng</i>	
A COMBINING ALGORITHM FOR SIGNAL ARRAYING USING MMSE ESTIMATOR	871
<i>Cailian Chen, Hongyi Yu, Caiyao Shen, Chaojiang Tan, Ao Zhang, Zhikang Tang</i>	
AN APPLIED METHOD FOR BLIND SNR ESTIMATION IN COMMUNICATION SIGNALS	875
<i>Hai-Ying Zhang, Chao-Wei Yuan</i>	
PHYSICAL-LAYER TIME SYNCHRONIZATION FOR WIRELESS SENSOR NETWORKS USING UWB SIGNALS.....	879
<i>Jinfang Meng, Kehu Yang</i>	

CHINACOM 2009: CHANNEL MODEL AND ANALYSIS – WCN-14

SEQUENTIAL MONTE CARLO-BASED CONSTELLATION CLASSIFICATION FOR ISI CHANNELS: SUPERCONSTELLATION METHOD	884
<i>Jianping Zheng, Baoming Bai, Ying Li</i>	
SINR ANALYSIS OF BPSK UWB CONSIDERING IPI AND ICI IN IEEE CHANNEL MODELS AND ITS APPLICATION	889
<i>Bo Zhao, Yunfei Chen</i>	
IMPACTS OF AMPLIFIER NONLINEARITIES ON UPLINK PERFORMANCE IN 3G LTE SYSTEMS	894
<i>Kan Zheng, Meiyi Wei, Hang Long, Yang Liu, Wenbo Wang</i>	
THE PEAK-TO-AVERAGE POWER RATIO DISTRIBUTION OF LFDMA SIGNALS	899
<i>Wenling Bai, Yue Xiao, Shaoqian Li</i>	

CHINACOM 2009: BROADCAST/MULTICAST TECHNOLOGIES AND POWER LINE COMMUNICATIONS – FCN-07

AOS: A SCALABLE ARCHITECTURE FOR INTER-DOMAIN IP MULTICAST	903
<i>Yuncheng Zhu, Hongqiang Liu, Congxiao Bao, Xing Li</i>	
A NOVEL BROADCAST PARADIGM IN SUPPORTING POWER-SAVING MOBILE STATIONS	908
<i>Haw-Yun Shin, Mao-Hsu Yen</i>	
PERFORMANCE EVALUATION OF MAC-PHY CROSS-LAYER DESIGN FOR POWER LINE COMMUNICATION NETWORKS	913
<i>Jyh-Horng Wen, Chien-Erh Weng, Jee-Wey Wang</i>	
A LOAD BALANCING SCHEME FOR TWO-STAGE SWITCHES WITH MINIMUM BUFFERS FOR SCALABILITY	919
<i>Liang-Min Lin, Hui Li, Jia-Qing Huang, Hui-Yao An, Peng Yi, Bin-Qiang Wang</i>	

ACDMC WORKSHOP 209: APPLICATION-DRIVEN CROSS-LAYER DESIGN FOR REAL-TIME MULTIMEDIA STREAMING – SESSION 1

APPLICATION-DRIVEN CROSS LAYER OPTIMIZATION FOR WIRELESS NETWORKS USING MOS-BASED UTILITY FUNCTIONS	924
<i>Srisakul Thakolsri, Wolfgang Kellerer, Eckehard Steinbach</i>	
CROSS-LAYER DESIGN OF AGGREGATED RESOURCE ALLOCATION FOR MULTIMEDIA OVER HETEROGENEOUS WIRELESS NETWORKS	929
<i>Chenn-Jung Huang, I-Fan Chen, Hung-Yen Shen, Jia-Jian Liao</i>	
PACKET SCHEDULING AND RESOURCE ALLOCATION VIDEO TRANSMISSION OVER DOWNLINK OFDMA NETWORKS	934
<i>Fan Li, Guizhong Liu, Jin Xu, Lijun He</i>	

ACDMC WORKSHOP 2009: APPLICATION-DRIVEN RESOURCE ALLOCATION, SCHEDULING, AND ADMISSION CONTROL – SESSION 2

APPLICATION-DRIVEN NETWORK RESOURCE SCHEDULING SCHEME FOR REAL-TIME MULTIMEDIA IN OPTICAL GRID	939
<i>Runze Wu, Yuefeng Ji</i>	
TEST-BED MEASUREMENTS FOR AD-HOC WSN APPLICATIONS	944
<i>P. Mariño, F. P. Fontán, M. A. Domínguez, S. Otero</i>	
A LOW COMPLEXITY HEURISTIC ADAPTIVE RESOURCE ALLOCATION ALGORITHM FOR MULTIUSER OFDM UNDER RATE CONSTRAINTS	949
<i>Shihua Zhu, Gangming Lv, Hui Hui</i>	
CROSS-LAYER DESIGN OF CODING OPERATION AND RATE SELECTION FOR NETWORK CODING-BASED MULTIHOP WIRELESS NETWORKS	953
<i>Kaikai Chi, Xiaohong Jiang, Susumu Horiguchi</i>	

IWONCMM WORKSHOP 2009: CHANNEL MODELING-I – SESSION 1

EFFICIENT CHANNEL MODELS FOR NETWORK-LEVEL SIMULATIONS	958
<i>Jussi Poikonen, Jarkko Paavola</i>	
PRACTICAL ASPECTS OF USING IMT-ADVANCED CHANNEL MODELS	964
<i>Tommi Jämsä, Pekka Kyösti, Juha Meinilä</i>	
EVALUATION OF MIMO STRUCTURE AND CHANNEL MODEL IN LTE SYSTEM.....	972
<i>Shiqiang Suo, Yu Yang, Yeming Tang, Yingmin Wang</i>	

IWONCMM WORKSHOP 2009: CHANNEL MODELING-II – SESSION 2

A GENERIC WIDEBAND CHANNEL MODEL FOR KEYHOLE PROPAGATION SCENARIOS AND EXPERIMENTAL EVALUATION	977
<i>Xuefeng Yin, Yi Zhou, Fuqiang Liu</i>	
POLARIZATION MODELLING FOR MIMO CHANNEL.....	982
<i>Fei Qin, Rakesh, Shaohui Sun, Shaoli Kang</i>	

IWONCMM WORKSHOP 2009: CHANNEL SOUNDING, MEASUREMENTS AND PROPAGATION CHARACTERISTICS-I – SESSION 3

PROPAGATION CHARACTERISTICS OF WIDEBAND RELAY CHANNELS IN URBAN ENVIRONMENT	987
<i>Jianhua Zhang, Di Dong, Xin Nie, Yangping Liang, Chengxiang Huang, Guangyi Liu, Weihui Dong</i>	
FEASIBILITY STUDY OF EMERGING HIGH THROUGHPUT RADIO SYSTEMS	993
<i>S. Geng, M. Kyrö, S. Ranvier, Katsuyuki Haneda, P. Vainikainen</i>	
CARRIER FREQUENCY EFFECTS ON PROPAGATION CHARACTERISTICS IN RURAL MACRO ENVIRONMENTS.....	998
<i>Wonsop Kim, Hyuckjae Lee, Jae Joon Park, Myung-Don Kim, Hyun Kyu Chung</i>	
60 GHZ IN-CABIN REAL-TIME CHANNEL SOUNDING	1003
<i>A. P. Garcia, W. Kotterman, R. S. Thomä, U. Trautwein, D. Brückner, W. Wirnitzer, J. Kunisch</i>	

**IWONCMMM WORKSHOP 2009: CHANNEL SOUNDING, MEASUREMENTS AND
PROPAGATION CHARACTERISTICS-II – SESSION 4**

EFFECTS OF THE NUMBER OF DISCRETE DELAY COMPONENTS ON THE ACCURACY OF WIRELESS CHANNEL SIMULATION.....	1008
<i>Jussi Poikonen, Tero Hurnanen, Jukka-Pekka Nuutinen</i>	
POWER COVERAGE AND FADING CHARACTERISTICS OF INDOOR DISTRIBUTED ANTENNA SYSTEMS.....	1013
<i>Xinwei Hu, Yan Zhang, Yuanzhi Jia, Shidong Zhou, Limin Xiao</i>	
EXPERIMENTAL RESULTS BASED ON MACRO-CELL CHANNEL MEASUREMENT.....	1017
<i>Yingzhe Li, Ping Wang, Kun Sun, Tianghang Gou</i>	

**CRNET WORKSHOP 2009: SPECTRUM SENSING AND DYNAMIC SPECTRUM ACCESSED-I –
SESSION 1**

A MODIFIED SPECTRUM SENSING METHOD FOR WIDEBAND COGNITIVE RADIO BASED ON COMPRESSIVE SENSING.....	1021
<i>Xi Chen, Linjing Zhao, Jiandong Li</i>	

**CRNET WORKSHOP 2009: SPECTRUM SENSING AND DYNAMIC SPECTRUM ACCESS-II –
SESSION 2**

A MULTI-CHANNEL TRANSMISSION SCHEME IN COGNITIVE RADIO NETWORKS	1026
<i>Meiyu Sun, Cheng Chi, Vanbien Le, Zhiyong Feng</i>	
A SPECTRUM SHARING SCHEME FOR COGNITIVE RADIO NETWORKS.....	1031
<i>Li-Ke Wang, Yi-Hua Zhu</i>	
OPPORTUNISTIC SPECTRUM ACCESS WITH CHANNEL BONDING.....	1035
<i>Yao Lu, Hao He, Jun Wang, Shaoqian Li</i>	

**CRNET WORKSHOP 2009: PERFORMANCE EVALUATION AND SOME KEY ISSUES FOR
COGNITIVE RADIO NETWORK-I – SESSION 3**

SIDELobe SUPPRESSION FOR OFDM BASED COGNITIVE RADIO SYSTEMS	1040
<i>Xiao Fu, Jun Wang, Shao Qian Li</i>	
THE CONSTRUCTION OF KNOWLEDGE BASE IN COGNITIVE WIRELESS NETWORK BASED ON NETWORK SITUATION-AWARE	1045
<i>Fei Shao, Quan Yu, Li-Feng Wang, Sheng-Qun Wei</i>	
RAC: RANGE ADAPTIVE COGNITIVE RADIO NETWORKS.....	1051
<i>A. Cagatay Talay, D. Turgay Altılar</i>	
POWER SAVING CLASS TYPE III WITH SLEEP-DELAY AND SELF-SIMILAR TRAFFIC IN IEEE 802.16E.....	1056
<i>Li Han, Shunfu Jin, Wuyi Yue</i>	

**CRNET WORKSHOP 2009: PERFORMANCE EVALUATION AND SOME KEY ISSUES FOR
COGNITIVE RADIO NETWORK-II – SESSION 4**

A NOVEL INTERFERENCE MATRIX GENERATION ALGORITHM IN GSM NETWORKS	1061
<i>Yu Gao, Jingqun Song, Qixun Zhang, Yunfei Ma, Jinlong Wang, Zhiyong Feng</i>	
A DISTRIBUTED CAPACITY ESTIMATION ALGORITHM OF COGNITIVE NETWORK	1066
<i>Gang Hu, Lixia Liu, Hongjian Li, Deming Pang, Ming Xu</i>	
A SURVEY ON THE AVAILABLE DIGITAL TV BANDS FOR COGNITIVE RADIO OPERATIONS.....	1071
<i>Xiuqin Lin, Yang Fang</i>	
Author Index	