

2013 IEEE/CIC International Conference on Communications in China

(ICCC 2013)

**Xi'an China
12-14 August 2013**



**IEEE Catalog Number: CFP13ICL-POD
ISBN: 978-1-4799-1032-8**

ICCC 2013: 2013 IEEE/CIC International Conference on Communications in China (ICCC) - Program

CIT01: Information Theory

Slice Error Detection and Correction Decoder for H.264/AVC Video Sequences

Kai Yen (Institute for Infocomm Research, Singapore); Sumei Sun (Institute for Infocomm Research, Singapore)
pp. 1-5

An Extended Fano's Inequality for the Finite Blocklength Coding

Yunquan Dong (Tsinghua University, P.R. China); Pingyi Fan (Tsinghua University, P.R. China)
pp. 6-10

A Multicast Routing Protocol for Network Coding

Gaifan Li (University of Science and Technology of China, P.R. China); Yinlong Xu (University of Science and Technology of China, P.R. China); Shuai Li (University of Science and Technology of China, P.R. China); Dexin Cui (University of Science & Technology of China, P.R. China)
pp. 11-16

FMI03P: Power Management

Dynamic Fair Scheduling for Inter-cell Interference Coordination in 4G Cellular Networks

Wen Guo (Hefei University of Technology, P.R. China); Xiumin Wang (Hefei University of Technology, P.R. China); Jie Li (Hefei University of Technology, P.R. China); Lusheng Wang (Hefei University of Technology, P.R. China)
pp. 84-88

QRS03P: Wireless Network Security

Effective Eavesdropping in the Artificial Noise Aided Security Scheme

Feilong Wu (Xi'an Jiaotong University, P.R. China); Wenjie Wang (Xi'an Jiaotong University, P.R. China); Bobin Yao (Xi'an Jiaotong University, P.R. China); Qinye Yin (Xi'an Jiaotong University, P.R. China)
pp. 214-218

Eavesdropper Tolerance Capability Study in Two-Hop Cooperative Wireless Networks

Yuanyu Zhang (Xidian University, P.R. China); Yulong Shen (Xidian University & Wayne State University, USA); Xiaohong Jiang (Future University-Hakodate, Japan)
pp. 219-223

Anonymous Deduplication of Encrypted Data with Proof of Ownership in Cloud Storage

Xuexue Jin (USTC, P.R. China); Lingbo Wei (Shanghai Jiao Tong University, P.R. China); Mengke Yu (USTC, P.R. China); Nenghai Yu (University of Science and Technology of China, P.R. China); Jinyuan (Stella) Sun (University of Tennessee, USA)
pp. 224-229

SPC01: Performance Analysis and Evaluation

Blind Interference Alignment with Diversity in Two-User Interference Channel

Yi Lu (The University of New South Wales, Australia); Wei Zhang (The University of New South Wales, Australia); Khaled B. Letaief (The Hong Kong University of Science and Technology, Hong Kong)
pp. 275-280

Outage Capacity Analysis of LTE-A Transmission Techniques

Le Chen (National Mobile Communications Research Lab., Southeast University, P.R. China); Pengcheng Zhu (National Mobile Communications Research Lab., P.R. China); Shuowen Zhang (National Mobile Communications Research Lab., Southeast University, P.R. China); Xiaohu You (National Mobile communication Research Lab., Southeast University, P.R. China)
pp. 281-285

On the Performance of Heterogeneous Wireless Networks with Heavy Tail Traffic

Juan Wen (Xidian University, P.R. China); Min Sheng (Xidian University, P.R. China); Yan Zhang (Xidian University, P.R. China); Xijun Wang (Xidian University, P.R. China)
pp. 286-291

Analysis and Modeling of Channel Reciprocity Errors based on a Experimental OFDM/TDD Coordinated Multi-point Transmission System

Zheqi Gu (University of Electronic Science and Technology of China, P.R. China); Ning Wei (University of Electronic Science and Technology of China, P.R. China); Zhongpei Zhang (University of Electronic Science and Technology of China, P.R. China)
pp. 292-296

Performance Analysis of Cognitive Relay Networks Under Both Average and Peak Interference Power Constraints

HaiYan Huang (XiDian University, P.R. China); JiangBo Si (Xi'dian, P.R. China); Zan Li (Xidian University, P.R. China); Benjian Hao (Xidian University, P.R. China); Lei Pan (Xidian University, P.R. China)
pp. 297-302

WCS01: MIMO Networks

Electromagnetic Lens-focusing Antenna Enabled Massive MIMO

Yong Zeng (Nanyang Technological University, Singapore); Rui Zhang (National University of Singapore, Singapore); Zhi Ning Chen (National University of Singapore & Institute for Infocomm Research, Singapore)
pp. 454-459

User Pairing Scheme with Maximum Stability Region under QoS Constraints for Uplink Virtual MIMO Networks

Chunliang Wu (University of Science and Technology of China, P.R. China); Li Chen (University of Science and Technology of China, P.R. China); Guo Wei (University of Sci. & Tech. of China, P.R. China)
pp. 460-465

DF-AF Selection MIMO Relaying with Orthogonal Space-Time Block Codes in Wireless Networks

Tian Zhang (Tsinghua University & Shandong University, P.R. China); Wei Chen (Tsinghua University, P.R. China); Wei Zhang (The University of New South Wales, Australia); Zhigang Cao (Tsinghua University, P.R. China)
pp. 466-471

Alamouti Scheme based Affine Projection Decoder in a Multiuser MIMO Downlink System

Haiquan Wang (Hangzhou Dianzi University, P.R. China); Luping Ma (Hangzhou Dianzi University, P.R. China); Linlin Hou (Hangzhou Dianzi University, P.R. China); Lei Shen (Hangzhou Dianzi University, P.R. China)
pp. 472-477

WNA01: Wireless Sensor Networks

CMESR: a Hybrid Approach for Data Collection and Sensor Redeployment Using Mobile Element in WSNs

Jiaying Xiao (Northwestern Polytechnical University, P.R. China); Ruonan Zhang (Northwestern Polytechnical University, P.R. China); Jianping Pan (University of Victoria, Canada); Yi Jiang (Northwestern Polytechnical University & School of Electronics and Information, P.R. China)
pp. 616-621

Hierarchical Spatial Clustering in Multi-hop Wireless Sensor Networks

Zhidan Liu (Zhejiang University, P.R. China); Wei Xing (Zhejiang University, P.R. China); Bo Zeng (Zhejiang University, P.R. China); Yongchao Wang (Zhejiang University, P.R. China); Dongming Lu (Zhejiang University, P.R. China)
pp. 622-627

A New Variant of Sum-Product Algorithm for Sensor Self-Localization in Wireless Networks

Wei Li (Nanjing University of Posts and Telecommunications, P.R. China); Zhen Yang (Nanjing University of Posts and Telecommunications, P.R. China); Haifeng Hu (Nanjing University of Posts and Telecommunications, P.R. China)
pp. 628-632

An Energy-efficient TDMA Scheduling for Data Collection in Wireless Sensor Networks

Bo Zeng (Zhejiang University, P.R. China); Yabo Dong (Zhejiang University, P.R. China); Jie He (Zhejiang University, P.R. China); Dongming Lu (Zhejiang University, P.R. China)
pp. 633-638

Node Buffer Size in Intermittently Connected Wireless Networks with Infrastructure Support

Chengyu Lin (Naval Aeronautical Engineering Institute Qingdao Branch, P.R. China); Tuo Yu (Shanghai Jiaotong University, P.R. China); Riheng Jia (Shanghai Jiaotong University, P.R. China); Feng Yang (Shanghai Jiaotong University, P.R. China); Xiaoying Gan (Shanghai Jiao Tong University, P.R. China)
pp. 639-644

WNA05P: Transmissions Schemes

Dynamic Joint Transmission for Downlink Scheduling Scheme in Clustered CoMP Cellular

Jia Yu (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Peipei Chen (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Bin Cao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Yalin Zhang (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)
pp. 645-650

Two-Hop Relay Algorithm with Packet Redundancy and Erasure Coding in MANETs

Yang Bin (Future University Hakodate, Japan); Juntao Gao (Future University-Hakodate, Japan); Yuezhi Zhou (Tsinghua University, P.R. China); Xiaohong Jiang (Future University-Hakodate, Japan)
pp. 651-656

A Novel Data Forwarding Scheme in WLANs with Hidden Terminals

Ronghui Hou (Xidian University, P.R. China); Xiaoni Chang (Xidian University, P.R. China); Jiandong Li (Xidian University, P.R. China)
pp. 657-661

Data Gathering for Network Compressed Coding Enabled Wireless Sensor Networks

Yunhe Li (Harbin Institute of Technology, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Shaohua Wu (Harbin Institute of Technology, P.R. China); Bin Cao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)
pp. 662-667

WNA06P: Energy Efficiency

Energy and Throughput Tradeoff in Hybrid Cognitive Radio Networks based on POMDP

Yalin Zhang (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Ye Wang (University of Ontario Institute of Technology, Canada); Peipei Chen (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Bin Cao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)
pp. 668-673

EESM-based Fingerprint Algorithm for Wi-Fi Indoor Positioning System

Fan Wang (Shanghai Jiao Tong University, P.R. China); Zhengyong Huang (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); Xiaohua Tian (Shanghai Jiaotong University, P.R. China); Xinbing Wang (Shanghai Jiaotong University, P.R. China); Jinwei Huang (Shanghai Jiao Tong University, P.R. China)
pp. 674-679

Mobile Cloud with Smart Offloading System

Wei-Tsung Su (Aletheia University, Taiwan); Kiat Siong Ng (National Cheng Kung University, Taiwan)
pp. 680-685

A Logic-Route Key Tree based Group Key Management Scheme for Wireless Sensor Networks

Rong Jiang (National University of Defense Technology, P.R. China); Jun Luo (National University of Defense Technology, P.R. China); Xiaoping Wang (National University of Defense Technology, P.R. China)
pp. 686-691

CIT04P: Wireless Network

An Approach to Mitigate the Quantization Distortion of the Quantized OFDM Receiver

Zhimin Li (University of Science and Technology of China, P.R. China); Ying Yang (University of Science and Technology of China, P.R. China); Weidong Wang (University of Science and Technology of China, P.R. China)
pp. 17-21

Performance Analysis of Small Cells Using Stochastic Geometry Approach in Nakagami Fading Channels

Jiajia Chen (National Chiao Tung University, Taiwan); Li-Chun Wang (National Chiao Tung University, Taiwan)
pp. 22-26

Performance Enhancement Of Pragmatic General Multicast Protocol Using a Local Loss Recovery Strategy

Tunisha Shome (Indira Gandhi Institute of Technology, India); Sunayana Gupta (Guru Gobind Singh Indraprastha University & Indira Gandhi Institute of Technology, India)
pp. 27-32

FMI01: Data Access and Mobile Computing

Statistic Analysis of Data Access Behavior in the Mobile Internet

Lihua Wu (Wuhan University, P.R. China); Xin Qian (Microsoft Corporation, USA); Yuan Li (Wuhan University, P.R. China); Chen Zhou (Wuhan University, P.R. China); Jiang Hao (Wuhan University, P.R. China)
pp. 89-93

A Multi-Path based In-network Content Caching Scheme

Deepak Bhatia (University of Surrey, United Kingdom); Ning Wang (University of Surrey, United Kingdom); Michael P. Howarth (University of Surrey, United Kingdom)
pp. 94-99

Privacy-Preserving Computation for Location-based Information Survey via Mobile Cloud Computing

Hao Zhang (University of Science and Technology of China, P.R. China); Yonggang Wen (Nanyang Technological University, Singapore); Nenghai Yu (University of Science and Technology of China, P.R. China); Xinwen Zhang (Samsung, USA)
pp. 100-105

Power Consumption of Mobile Video Streaming under Adverse Network Conditions

Junlun Ma (Sun Yat-Sen University, P.R. China); Xiang Deng (Sun Yat-Sen University, P.R. China); Yong Liu (Polytechnic Institute of NYU, USA); Di Wu (Sun Yat-Sen University, P.R. China)
pp. 106-111

Spectral-Efficiency of Uplink Cellular Networks with Distributed Base-Station Detection and Cooperation

Xiaojie Ju (Beihang University & University of Southampton, P.R. China); Youguang Zhang (Beihang University, P.R. China); Lie-Liang Yang (University of Southampton, United Kingdom)
pp. 112-116

OCS01: Optical Wireless Network

A Novel Analytical Framework for Modeling Nonlinear Distortions in OFDM-based Optical Wireless Communication

Dobroslav A. Tsonev (University of Edinburgh, United Kingdom); Sinan Sinanović (University of Edinburgh, United Kingdom); Harald Haas (The University of Edinburgh, United Kingdom)
pp. 147-152

Average BER Analysis of Multihop FSO Systems over Strong Turbulence and Misalignment Fading Channels

Ngoc Dang (Posts and Telecommunications Institute of Technology, Vietnam); Hien Pham (Posts and Telecommunications Institute of Technology, Vietnam); Anh T. Pham (The University of Aizu, Japan)
pp. 153-157

An Efficient Split-Step Optical Fiber Simulation Package with Global Simulation Accuracy Control

Qun Zhang (Minnesota State University, Mankato & Oclaro Inc., USA); Sujit Shrestha (Minnesota State University, Mankato, USA); Rifath Rashid (Minnesota State University, Mankato, USA); Santoshreddy Karri (Minnesota State University Mankato, USA); Muhammad Khaliq (Minnesota State University, Mankato, USA)
pp. 158-164

Performance Analysis of Multihop FSO Systems Using APD Receivers over Log-Normal Channels

Thanh Pham (University of Aizu & Computer Communications Lab., Japan); Truong Cong Thang (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan)
pp. 165-170

Home Circuit Grouping in LOBS-HC Ring Networks: ILP and Heuristic Approaches

Jingcong Li (Minzu University of China, P.R. China); Huilan Zou (Minzu University of China, P.R. China); Wan Tang (South-Central University for Nationalities, P.R. China); Xiujiào Gao (University at Buffalo, USA); Chunming Qiao (State University of New York at Buffalo, USA)
pp. 171-176

QRS01: Privacy-preserving and Network Performance

Fine-grained Privacy-preserving Reputation System for Online Social Networks

Linke Guo (University of Florida, USA); Yuguang Fang (University of Florida, USA); Lingbo Wei (Shanghai Jiao Tong University, P.R. China)
pp. 230-235

PARK: A Privacy-preserving Aggregation Scheme with Adaptive Key Management for Smart Grid

Kuan Zhang (University of Waterloo, Canada); Rongxing Lu (Nanyang Technological University, Singapore); Xiaohui Liang (University of Waterloo, Canada); Jian Qiao (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)
pp. 236-241

A Unified Cooperative Radio Resource Management Game

Chungang Yang (Xidian University, P.R. China)
pp. 242-246

Simulation on Performance of Forward Link in Simulcast PDT

Daying Quan (Eastern Communications Company Limited, P.R. China); Shaofeng Xie (Eastern Communications Company Limited, P.R. China); Zongjun Zhang (Eastern Communications

SPC05P: Advanced Signal Processing for Communications

Joint Channel Estimation and Pre-Equalization for Monobit Transmission System

Pengfei Li (University of Science and Technology of China, P.R. China); Zhiyong Wang (University of Science and Technology of China, P.R. China); Huarui Yin (University of Science and Technology of China, P.R. China)
pp. 303-308

Spatial Modulation Detection Based on Projection Decomposition

Jianping Zheng (Xidian University, P.R. China)
pp. 309-313

Analysis of Interference-aware Receivers in Heterogeneous LTE Networks

Stanislaus Iwelski (University of Duisburg-Essen, Germany); Zijian Bai (University of Duisburg-Essen, Germany); Guido Bruck (University of Duisburg Essen, Germany); Peter Jung (Universität Duisburg-Essen, Germany); Biljana Badic (Intel, Germany); Tobias Scholand (Intel, Germany); Rajarajan Balraj (Intel, Germany)
pp. 314-320

Joint UWB TOA and AOA Estimation Under 1-bit Quantization Resolution

Si Zhu (University of Science and Technology of China, P.R. China); Fei Sun (University of Science and Technology of China, P.R. China); XiaoHui Chen (University of Science and Technology of China, P.R. China)
pp. 321-326

A Modified Algorithm for Joint Frequency Offset and Channel Estimation in OFDM Systems

Shi-Hao Chiu (National Central University, Taiwan); Kuo-Ching Fu (National Central University, Taiwan); Yung-Fang Chen (National Central University, Taiwan)
pp. 327-332

SPC06P: LTE and advanced systems

Downlink Beamforming for Weighted Sum-Rate Maximization

Xin Wang (Fudan University, P.R. China); Zhaoquan Li (Florida Atlantic University, USA)
pp. 333-338

Maximum Power Interference Alignment Scheme for Less Overhead in MIMO Interference Channel

Zheng-yu Zhu (Zhengzhou University, P.R. China); Zhong-yong Wang (Zhengzhou University, P.R. China); Xiangchuan Gao (Zhengzhou University, P.R. China); Wang Wei (Zheng Zhou University, P.R. China); Zhang Yuanyuan (Zheng Zhou University, P.R. China)
pp. 339-344

Adaptive Power Allocation for Decode-and-Forward OFDM Transmission with Multi-Hop Relaying

Jun Wang (University of Science and Technology Beijing (USTB), P.R. China); Yang Li (USTB, P.R. China); Bin Zhong (University of Science and Technology Beijing (USTB), P.R. China); Zhongshan Zhang (University of Science and Technology Beijing (USTB), P.R. China); Keping Long (University of Science and Technology Beijing, P.R. China)
pp. 345-350

Analysis Framework for Cooperative Multi-Relaying over In-door Composite Fading Environments

John F. An (National Taiwan Ocean University, Taiwan); Shih-Hsin Huang (MSEE, Taiwan)
pp. 351-356

Energy-efficiency Maximization for OFDMA Networks with Total Power Constraint

Tao Wang (Shanghai University, P.R. China)
pp. 357-361

FMI02: Heterogeneous wireless Networks

Mobile Behaviometrics: Models and Applications

Jiang Zhu (Carnegie Mellon University, USA); Hao Hu (Cisco Systems, USA); Sky Hu (Carnegie Mellon University, USA); Pang Wu (Carnegie Mellon University, USA); Joy Zhang (Carnegie Mellon University, USA)
pp. 117-123

Downlink Interference Minimization in Cognitive LTE-Femtocell Networks

Xin Tao (Zhejiang University, P.R. China); Zhifeng Zhao (Zhejiang University, P.R. China); Rongpeng Li (Zhejiang University, P.R. China); Jacques Palicot (IETR/Supélec, France); Honggang Zhang (Université Européenne de Bretagne (UEB) and Supelec & Zhejiang University, France)
pp. 124-129

Interference Forwarding for D2D based Heterogeneous Cellular Networks

Seong Kyu Choi (Sungkyunkwan University, Korea); Woojin Kim (SungKyunKwan University, Korea); Hae Sol Lee (SungKyungKwan University, Korea); Dong In Kim (Sungkyunkwan University (SKKU), Korea)
pp. 130-134

On the Position-based Resource-sharing for Device-to-Device Communications Underlying Cellular Networks

Haibo Wang (Beijing Jiaotong University, P.R. China)
pp. 135-140

Cooperative Mobility Load Balancing in Relay Cellular Networks

Lexi Xu (Queen Mary, University of London, United Kingdom); Yue Chen (Queen Mary University of London, United Kingdom); Kok Keong (Michael) Chai (Queen Mary, University of London, United Kingdom); Yuting Luan (Shenyang Railway Survey & Design Institute, P.R. China); Dantong Liu (Queen Mary University of London, United Kingdom)
pp. 141-146

OCS02: Optical Network

Single Frequency Tunable Fiber Lasers for Optical Communications

Shien-Kuei Peter Liaw (National Taiwan University of Science and Technology, Taiwan); Hsiang Wang (National Taiwan University of Science and Technology, Taiwan); Hai-Yin Hsu (National Taiwan University of Science and Technology, Taiwan); Nan-Kuang Chen (National United University, Taiwan); Chow-Shing Shin (National Taiwan University, Taiwan)

Traffic Partition Grooming in the Mixed Granularity and Multi-domain Optical Networks

Weigang Hou (Northeastern University, P.R. China); Yue Zong (Northeastern University, P.R. China); Lei Guo (Northeastern University, P.R. China)
pp. 177-182

architecture, performance and cost analysis of an optical packet switch with input concentrators

Shuna Yang (ITEM, Norwegian University of Science and Technology, Norway); Norvald Stol (Norwegian University of Science and Technology, Norway)
pp. 183-189

1-Gb/s Multimedia Service Upstream Transmission in Real-Time DSP-Based OFDM-PON

Yaojun Qiao (Beijing University of Posts and Telecommunications, P.R. China); Ji Zhou (Beijing University of Posts and Telecommunications, P.R. China); Lei Wang (Beijing University of Posts and Telecommunications, P.R. China); Ji Yuefeng (Beijing University of Posts and Telecommunications, P.R. China)
pp. 190-194

Pump Reflector Based Remote Pumped Bidirectional EDFA for WDM PON Transport

Shih-Syuan Hong (National Taiwan University of Science and Technology, Taiwan); Yi-Lin Yu (National Taiwan University of Science and Technology, Taiwan); Shien-Kuei Peter Liaw (National Taiwan University of Science and Technology, Taiwan); Chow-Shing Shin (National Taiwan University, Taiwan)
pp. 195-198

OCS03P: Optical Switching Network

Performance Analysis of None-line-of-sight Ultraviolet Communications with Multi-User Interference

Xingjian Jiang (Beijing University of Posts and Telecommunications, P.R. China); Pengfei Luo (Beijing University of Posts and Telecommunications, P.R. China); Min Zhang (Beijing University of Posts and Telecommunications, P.R. China)
pp. 199-203

Scalable Data Center Network With Distributed Placement of Component Sets in Optical Networks

Jie Xiao (Tianjin University, P.R. China); Bin Wu (Tianjin University, P.R. China); Xiaohong Jiang (Future University-Hakodate, Japan); Achille Pattavina (Politecnico di Milano, Italy); Hong Wen (UESTC, P.R. China); Lei Zhang (Tianjin University, P.R. China)
pp. 204-208

An Analytical Approach to Chaotic Behavior of TCP in OBS Networks

He Li (Dalian University of Technology, P.R. China); Hongxi Yin (Dalian University of Technology, P.R. China)
pp. 209-213

QRS02: Models and Algorithms

Optimal Latency Balancing Algorithm for Multiple Portal in Wireless Mesh Networks

Azman Osman Lim (Japan Advanced Institute of Science and Technology (JAIST) & School of Information Science, Japan); Zuan Chen (Japan Advanced Institute of Science and Technology (JAIST), Japan); Yasuo Tan (JAIST, Japan)
pp. 252-258

Linear MMSE Transceiver Optimization for General MIMO Wiretap Channels with QoS Constraints

Minyan Pei (National University of Defense Technology, P.R. China); Lei Wang (NAA, P.R. China); Dongtang Ma (National University of Defense Technology, P.R. China)
pp. 259-263

An Artificial-neural-network-based QoE Estimation Model for Video Streaming over Wireless Networks

Yaqian Kang (Zhejiang University, P.R. China); Huifang Chen (Zhejiang University, P.R. China); Lei Xie (Zhejiang University, P.R. China)
pp. 264-269

Stochastic QoS Performance Analysis of DiffServ-based Wireless Sensor Network

Sangsha Fang (Huazhong University of Science and Technology, P.R. China); Li Yu (Huazhong University of Science & Technology, P.R. China); Jun Zheng (Huazhong University of Science and Technology, P.R. China); Qin Zhu (Huazhong University of Science and Technology, P.R. China)
pp. 270-274

WCS05P: Relay Communications

Opportunistic Nonorthogonal Cooperative Communications Through Decode-and-Forward Relaying

Tianfu Guan (Sun Yat-sen University, P.R. China); Li Chen (Sun Yat-sen University, P.R. China)
pp. 478-483

Joint Energy Saving Resource Allocation and User Scheduling in OFDMA Relay Networks

Bo Huang (Southwest Jiaotong University, P.R. China); Xuming Fang (Southwest Jiaotong University, P.R. China); Yu Chen (Southwest Jiaotong University, P.R. China)
pp. 484-490

A Low Complex Energy Saving Access Algorithm Based on Base Station Sleep Mode

Chao Meng (Southeast University & National Mobile Communication Research Laboratory, P.R. China); Li Xin (SEU, P.R. China); Xiaowen Lu (Southeast University, P.R. China); Tian Liang

(Southeast University, P.R. China); Yanxiang Jiang (Southeast University, P.R. China); Wei Heng (Southeast University, P.R. China)
pp. 491-495

Energy Efficient Resource Allocation in LTE-A

Yu Ye (University of Electronic Science and Technology of China, P.R. China); Hong Wen (UESTC, P.R. China); Zhuo Yong Ning (University of Electronic Science and Technology of China, P.R. China); Shizhong Xu (University of electronic science and Technology, P.R. China); Bin Wu (Tianjin University, P.R. China)
pp. 496-501

WCS06P: Network Algorithm

Subcarrier-Allocation in Downlink Multicarrier DS-CDMA Systems

Jia Shi (University of Southampton, United Kingdom); Lie-Liang Yang (University of Southampton, United Kingdom)
pp. 502-508

A Robust Multimode Transmission Strategy for PU2RC with Quantized CQI Using Hierarchical Codebook

Lei Lv (University of Electronic Science and Technology of China, P.R. China); Zhongpei Zhang (University of Electronic Science and Technology of China, P.R. China)
pp. 509-514

Diversity of MRC Frequency Domain Equalizer for Single Carrier UWB Block Transmission with Direct Sequence Spreading

Xiaoya Zuo (Northwestern Polytechnical University, P.R. China); Ding Wang (Northwestern Polytechnical University, P.R. China)
pp. 515-519

Secure Transmission based on Ergodic Fading Channel Uncertainty

Bin Yang (Xi'an Jiaotong University, P.R. China); Wang Wenjie (Xi'an Jiaotong University, P.R. China); Hui-Ming Wang (Xi'an Jiaotong University, P.R. China); Qinye Yin (Xi'an Jiaotong University, P.R. China)
pp. 520-524

Optimal Monobit Digital Receiver for QPSK Modulation with Phase Rotation

Zhiyong Wang (University of Science and Technology of China, P.R. China); Huarui Yin (University of Science and Technology of China, P.R. China); Guo Wei (University of Sci. & Tech. of China, P.R. China)
pp. 525-530

SPC02: Channel Estimation

Cooperative Spectrum Sensing With Adaptive Energy Threshold Control and Efficient Data Fusion

Xiang Ling (University of Electronic Science and Technology of China, P.R. China); Hong Wen (UESTC, P.R. China); Bin Wu (Tianjin University, P.R. China); Shizhong Xu (University of electronic science and Technology, P.R. China); Lili Pan (University of Electronic Science and Technology of China, P.R. China); Zhi Qiang Bao (University of Electronic Science and Technology of China, P.R. China)
pp. 362-367

Adaptive Sparse Channel Estimation Using Re-Weighted Zero-Attracting Normalized Least Mean Fourth

Guan Gui (Tohoku University, Japan); Abolfazl Mehdodniya (Tohoku University, Japan); Fumiyuki Adachi (Tohoku University, Japan)
pp. 368-373

Compressed Channel Estimation for MIMO Amplify-and-Forward Relay Networks

Aihua Zhang (Zhengzhou University, P.R. China); Guan Gui (Tohoku University, Japan); Shouyi Yang (Mie University, Japan)
pp. 374-379

On the Energy Consumption of M-PSK Modulation Schemes under Fading Channels

Nan Wu (Dalian Maritime University, P.R. China); Xudong Wang (Dalian Maritime University, P.R. China); Hao Dai (Dalian Maritime University, P.R. China); Hongji Zhao (Dalian Maritime University, P.R. China)
pp. 380-384

Optimal Training Symbols for Channel Estimation in Constant-Envelope OFDM

Tsung-Wei Wu (National Taiwan University, Taiwan); Yu-Chieh Cheng (National Taiwan University, Taiwan); Char-Dir Chung (Communication Society, Taiwan)
pp. 385-390

WCS02: Heterogeneous Networks

Beamforming Design for Multi-Pair Two-Way Relaying Systems via Monotonic Program

Zhaoxi Fang (Zhejiang Wanli University, P.R. China); Xiaojun Yuan (The Chinese University of Hong Kong, Hong Kong); Xin Wang (Fudan University, P.R. China)
pp. 531-536

Hypergraph-Based Frequency Reuse in Dense Femtocell Networks

Jiawei Feng (Shanghai Jiao Tong University, P.R. China); Meixia Tao (Shanghai Jiao Tong University, P.R. China)
pp. 537-542

A simple Physical Layer Network Coding with fractional delay

Yixin Li (The University of Reading, United Kingdom); Fu-Chun Zheng (The University of Reading, United Kingdom)
pp. 543-547

Phase Noise Estimation and Compensation in Vector OFDM systems

Ibo Ngehani (Zhejiang University, P.R. China); Yabo Li (Zhejiang University, P.R. China); Xiang-Gen Xia (University of Delaware, USA); Sami Ahmed (Zhejiang University, P.R. China); Minjian Zhao (Zhejiang University, P.R. China)
pp. 548-553

An Iteration Resource Allocation Method to Maximize Number of Users with QoS Demand in Femtocell Networks

Peng Liu (Xidian University, P.R. China); Jiandong Li (Xidian University, P.R. China); Hongyan Li (Xidian University, P.R. China); Kan Wang (Xidian University, P.R. China)
pp. 554-558

WNA02: Wireless Networking

PPPA: A Practical Privacy-Preserving Aggregation Scheme for Smart Grid Communications

Min Lu (Zhejiang University, P.R. China); Zhiguo Shi (Zhejiang University, P.R. China); Rongxing Lu (Nanyang Technological University, Singapore); Ruixue Sun (Zhejiang University, P.R. China); Sherman Shen (University of Waterloo, Canada)
pp. 692-697

A Unified End-to-End Security Scheme for Machine-Type Communication in LTE Networks

Chengzhe Lai (Xidian University, P.R. China); Hui Li (Xidian University, P.R. China); Rongxing Lu (Nanyang Technological University, Singapore); Sherman Shen (University of Waterloo, Canada); Jin Cao (Xidian University, P.R. China)
pp. 698-703

Explicit Rate based Transmission Control in Vehicle to Infrastructure Communications

Yuanguo Bi (Northeastern University & University of Waterloo, P.R. China); Sherman Shen (University of Waterloo, Canada); Hai Zhao (Northeastern University, P.R. China)
pp. 704-709

Asymmetric Resource Allocation for Collaborative Relay OFDMA Networks with Imperfect CSI

Zheng Chang (University of Jyväskylä, Finland); Tapani Ristaniemi (University of Jyväskylä, Finland); Zhisheng Niu (Tsinghua University, P.R. China)
pp. 710-715

CIT02: Channel Coding

A Single Frequency Full-Duplex Radio Relay Station for Frequency Domain Equalization Systems

Kazunori Hayashi (Kyoto University, Japan); Megumi Kaneko (Kyoto University, Japan)
pp. 33-38

Decoding Algorithms for Binary LDPC Coded Gaussian Interference Channels

Shancheng Zhao (Sun Yat-sen University, P.R. China); Xiao Ma (Sun Yat-sen University, P.R. China); Bao-Ming Bai (Xidian University, P.R. China)
pp. 39-43

Nonbinary LDPC-Coded Differential Modulation with Reduced-Complexity Decoding

Minghua Li (Xidian University, P.R. China); Bao-Ming Bai (Xidian University, P.R. China); Xiao Ma (Sun Yat-sen University, P.R. China)
pp. 44-49

Effect of the threshold offset on the performance of UEP LDPC codes

Abdul Wakeel (Jacobs University Bremen, Germany); Werner Henkel (Jacobs University Bremen, Germany); Feifei Gao (Tsinghua University, P.R. China)
pp. 50-54

SPC03: Cooperation and Relaying

Monotonic Optimization Method for General Utility Maximization in Random-access Networks

Suzhi Bi (The Chinese University of Hong Kong, Hong Kong); Liping Qian (Zhejiang University of Technology, P.R. China); Ying Jun (Angela) Zhang (The Chinese University of Hong Kong, Hong Kong)
pp. 391-396

Reputation-based Hierarchically Cooperative Spectrum Sensing Scheme in Cognitive Radio Networks

Xiong Ni (Yuquan Campuse. Zhejiang University , Hangzhou , China, P.R. China); Huifang Chen (Zhejiang University, P.R. China); Lei Xie (Zhejiang University, P.R. China); Kuang Wang (Zhejiang University, P.R. China)
pp. 397-402

Reputation-Weighted Based Data Fusion Scheme for Uplink Base-Station Cooperation System

Zhe Zhang (School of Information Engineering, Zhengzhou University, P.R. China); Jiankang Zhang (Zhengzhou University, P.R. China); Xiaomin Mu (Zhengzhou University, P.R. China); Xinying Guo (School of Information Engineering, Zhengzhou University, P.R. China)
pp. 403-407

Power Efficient Spectrum Leasing in Cooperative Cognitive Radios

Lina Song (Xidian University, P.R. China); Wei Liu (Xidian University, P.R. China); Jiandong Li (Xidian University, P.R. China); Qin Liu (Xidian University, P.R. China); Chuan Li (School of Computer and Technology, P.R. China)
pp. 408-413

Energy-Efficient Joint Relay Selection and Power Control for Reliable Cooperative Communications

Qingxiao Weng (South China University of Technology, P.R. China); Quansheng Guan (South China University of Technology & The Chinese University of Hong Kong, P.R. China); Shengming Jiang (Shanghai Maritime University, P.R. China); F. Richard Yu (Carleton University, Canada); Jinglun Shi (South China University of Technology, Korea)
pp. 414-419

WCS03: Resource Management and Optimization

Uplink Interference Analysis for Two-tier Cellular Networks with Diverse Users under Random Spatial Patterns

Wei Bao (University of Toronto, Canada); Ben Liang (University of Toronto, Canada)

pp. 559-564

Resource Allocation in OFDMA-based Distributed Antenna Systems

Huiling Zhu (University of Kent, United Kingdom); Jiangzhou Wang (University of Kent, United Kingdom)

pp. 565-570

Asymptotic Upper Bound on the Packet Propagation Speed in WANETs with Directional Antennas

Yin Chen (Future University Hakodate, Japan); Jiajia Liu (Tohoku University, Japan); Xiaohong Jiang (Future University-Hakodate, Japan); Osamu Takahashi (Future University Hakodate, Japan); Norio Shiratori (Tohoku University, Japan)

pp. 571-576

Finite-State Markov Modeling of Fading Channels: A Field Measurement in High-Speed Railways

Xuan Li (Beijing Jiaotong University, P.R. China); Chao Shen (Beijing Jiaotong University, P.R. China); Ai Bo (Beijing Jiaotong University, P.R. China); Gang Zhu (Electronics and Information College of Beijing Jiaotong University, P.R. China)

pp. 577-582

WNA03: Cognitive Radio Networks

Cognitive Radio Ad Hoc Networks for Smart Grid Communications: A Disaster Management Approach

Hossein Khayami (University of Tehran, Iran); Mohsen Ghassemi (University of Tehran, Iran); Kamyar Ardekani (University of Tehran, Iran); Behrouz Maham (University of Tehran, Iran); Walid Saad (University of Miami, USA)

pp. 716-721

Towards Secure Communications in Cooperative Cognitive Radio Networks

Ning Zhang (University of Waterloo, Canada); Ning Lu (University of Waterloo, Canada); Nan Cheng (University of Waterloo, Canada); Jon Mark (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

pp. 722-726

Sensing-Throughput Tradeoff in Joint Spatial-Temporal Sensing Based Cognitive Radio Networks

Peipei Chen (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Qinyu Zhang (Shenzhen Graduate School, Harbin Institute of Technology, P.R. China); Jia Yu (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Yalin Zhang (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Bin Cao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China)

pp. 727-732

Towards Cognitive Device-Free Localization in Wireless Networks

Lifei Wu (Dalian University of Technology, P.R. China); Jie Wang (Dalian University of Technology, P.R. China); Qinghua Gao (Dalian University of Technology, P.R. China); Hongyu Wang (Dalian University of Technology, P.R. China)

pp. 733-738

Adaptive Cognitive Enhanced Platform For WBAN

Qiang Shen (Shanghai JiaoTong University, P.R. China); Jing Liu (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); Zhichao Ma (Shanghai Jiao Tong University, P.R. China); Ming Li (Shanghai JiaoTong University, P.R. China); Chen Chen (Samsung Telecom R&D Center, Korea); Shen Zhichun (Cooperation, P.R. China)

pp. 739-744

Joint Routing and Scheduling in Fixed Multi-user MIMO Wireless Multi-hop Networks

Md. Forkan Uddin (Bangladesh University of Engineering and Technology, Bangladesh)

pp. 745-751

CIT03: Communicaiton Theory

Beyond Classical Economics: Exploring the Impact of Social-Psychological Factors on Preference for Speed over Price and Willingness to Pay for a Faster Wireless Service Plan

Xiaojing Xu (The University of Tennessee, USA); Chien-fei Chen (Research , USA); Wei Gao (University of Tennessee, USA); Husheng Li (University of Tennessee, USA)
pp. 55-60

An Integrated Wireless System Using Visible Light

Siu-Wai Ho (University of South Australia, Australia); William G Cowley (University of South Australia, Australia); Khoa D. Nguyen (University of South Australia, Australia); Jialong Duan (University of South Australia, Australia)
pp. 61-67

Achievable Spatial Degrees of Freedom for the MIMO Interference Channel with Local CSIT

Shixin Peng (Huazhong University of Science and Technology, P.R. China); Yingzhuang Liu (Huazhong University of Science and Technology, P.R. China); Zhengmin Kong (Wuhan University, P.R. China)
pp. 68-73

Refunding for Small Cell Networks with Limited-Capacity Backhaul

Yufei Yang (Singapore University of Technology and Design, Singapore); Tony Q. S. Quek (Singapore University of Technology and Design (SUTD) & Institute for Infocomm Research, Singapore); Lingjie Duan (Singapore University of Technology and Design (SUTD), Singapore)
pp. 74-78

Weighted Power Discrete Bit-loading in Upstream VDSL

Gao Yao (Ningbo University, P.R. China); Youming Li (Ningbo University, P.R. China); Xiaoqing Liu (School of Information Science and Engineering, Ningbo University, P.R. China); Ting Zou (School of Information Science and Engineering, Ningbo University, P.R. China)
pp. 79-83

SPC04: MIMO system

Diversity Analysis for Generalized MIMO Two-Way X Relay Channel

Zhengzheng Xiang (Shanghai Jiao Tong University, P.R. China); Meixia Tao (Shanghai Jiao Tong University, P.R. China)
pp. 420-424

How Much Feedback is Required for Interference Alignment over K-user Time-Variant Channel?

Yang Zhang (Beijing University of Posts and Telecommunications & China University of Petroleum, P.R. China); Zheng Zhou (Beijing University of Posts and Telecommunications, P.R. China); Bin Li (Beijing University of Posts and Telecommunications & Key Lab of Universal Wireless Communications, MOE, P.R. China); Yuhang Jia (Beijing University of Posts and Telecommunications, P.R. China)
pp. 425-429

Stable User Pairing in Virtual MIMO Systems: A Game Theoretical Perspective

Ziwei Fu (South China University of Technology, P.R. China); Quansheng Guan (South China University of Technology & The Chinese University of Hong Kong, P.R. China); Fei Ji (South China University of Technology, P.R. China); Shengming Jiang (Shanghai Maritime University, P.R. China); Yiqin Lu (South China University of Technology, P.R. China)
pp. 430-435

Joint Design of Relay Precoding and Artificial Noise with Presence of an Eavesdropper

Ruiqi Xue (Shanghai Jiao Tong University, P.R. China); Meng Zhang (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); HanWen Luo (Shanghai JiaoTong University, P.R. China); Xiaohua Tian (Shanghai Jiaotong University, P.R. China); Li Li (Shanghai Normal University, P.R. China)
pp. 436-441

Multi-Beam Scheduling for Unmanned Aerial Vehicle Networks

Batu Krishna Chalise (Villanova University, USA); Yimin D. Zhang (Villanova University, USA); Moeness G. Amin (Villanova University, USA)

Particle Swarm Optimization Aided MBER Beamforming Receiver for QAM Systems

Xinying Guo (School of Information Engineering, Zhengzhou University, P.R. China); Jiankang Zhang (Zhengzhou University, P.R. China); Xiaomin Mu (Zhengzhou University, P.R. China); Zhe Zhang (School of Information Engineering, Zhengzhou University, P.R. China)
pp. 448-453

WCS04: Spatial Transmission and Processing

An Asymmetric TDD Distributed Massive Antenna System

Koichi Adachi (Institute for Infocomm Research (I2R), Singapore); Sumei Sun (Institute for Infocomm Research, Singapore)
pp. 583-587

Spatial-Temporal Water-Filling Power Allocation in MIMO Systems with Harvested Energy

Congshi Hu (Tsinghua University, P.R. China); Jie Gong (Tsinghua University, P.R. China); Xiaolei Wang (Tsinghua University, P.R. China); Sheng Zhou (Tsinghua University, P.R. China); Zhisheng Niu (Tsinghua University, P.R. China)
pp. 588-593

Numerical Optimization Based Efficient Beam Switching for 60GHz Millimeter-wave Communications

Bin Li (Beijing University of Posts and Telecommunications & Key Lab of Universal Wireless Communications, MOE, P.R. China); Zheng Zhou (Beijing University of Posts and Telecommunications, P.R. China); Haijun Zhang (Beijing University of Chemical Technology, P.R. China); Arumugam Nallanathan (King's College London, United Kingdom)
pp. 594-599

On the Sum Capacity of Poisson Z-Interference Channels

Lifeng Lai (Worcester Polytechnic Institute, USA); Yingbin Liang (Syracuse University, USA); Shlomo (Shitz) Shamai (The Technion, Israel)
pp. 600-604

On the Achievable Capacity of Dual-Polarized Antenna Systems in 3D Indoor Scenarios

Fengxiang Wang (Peking University, P.R. China); Xiang Cheng (Peking University, P.R. China); Liuqing Yang (Colorado State University, USA); Bo Yu (Colorado State University, USA); Bingli Jiao (Peking University, P.R. China)
pp. 605-610

An Energy-Efficient Antenna Muting Scheme for 60GHz Wireless Networks

Hyeokin Seong (Tsinghua University, P.R. China); Xu Zhang (Tsinghua University, P.R. China); Sheng Zhou (Tsinghua University, P.R. China); Zhisheng Niu (Tsinghua University, P.R. China)
pp. 611-615

WNA04: Wireless Applications

Joint TCP Congestion Control and Wireless-Link Scheduling for Wireless Internet Applications

Xin Wang (Fudan University, P.R. China); Zhaoquan Li (Florida Atlantic University, USA)
pp. 752-757

A Green Radio Resource Allocation Scheme for LTE-A CoMP Systems with Multimedia Traffic

Wen-Ching Chung (National Chiao Tung University, Taiwan); Chung-Ju Chang (National Chiao Tung University, Taiwan); Chin-Ya Huang (National Chiao Tung University, Taiwan); Hsin-Ying Teng (National Chiao Tung University, Taiwan)
pp. 758-762

Scalable Video Coding Based Video Transmission in MRMC Networks: A Cross-Layer Design Perspective

Yan Long (Xidian University, P.R. China); Hongyan Li (Xidian University, P.R. China); Miao Pan (Texas Southern University, USA); Pan Li (Mississippi State University, USA); Jiandong Li (Xidian University, P.R. China)
pp. 763-767

Performance Evaluation of Scheduling Schemes for H.264/AVC Video Transmission over HSDPA

Qinli Wang (Xi'an Jiaotong University, P.R. China); Guizhong Liu (Xi'an Jiaotong University, P.R. China); Zhao Liu (Xi'an Jiaotong University, P.R. China)
pp. 768-773

CARD-BS: Consider of Back-off Suspension in CARD for WLAN

Zhichao Ma (Shanghai Jiao Tong University, P.R. China); Jing Liu (Shanghai Jiao Tong University, P.R. China); Hui Yu (Shanghai Jiao Tong University, P.R. China); Qiang Shen (Shanghai JiaoTong University, P.R. China); Ming Li (Shanghai JiaoTong University, P.R. China); Xiaoying Gan (Shanghai Jiao Tong University, P.R. China)
pp. 774-779

Ant Colony-based Radio Resource Allocation for LTE-A Systems with MIMO and CoMP Transmission

Wen-Ching Chung (National Chiao Tung University, Taiwan); Chien-Yuan Chen (National Chiao Tung University, Taiwan); Chin-Ya Huang (National Chiao Tung University, Taiwan); Chung-Ju Chang (National Chiao Tung University, Taiwan); Frank Ren (Industry Technology and Research Institute, Taiwan)
pp. 780-785