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Sessions and Technical Papers

June 27—29, 2004
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Session 1.1: Cryptography, Modulation and CDMA/OFDM Systems

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Chair: Hua Li
Co-Chair: Xiaofeng Liao

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Hua Li
University of Lethbridge, Canada T1K 3M4

1.1.2: Security Improvement on Yang-Shieh's Authentication Scheme
Yingjie Wang, Jianhua Li, Ling Tie
Shanghai Jiaotong University, Shanghai, 200030, China.

1.1.3: An Efficient Secret Sharing Realizing Generalized Adversary Structure and Its Reduction
GUO Yuan-bo, SHI Ting-jun, MA Jian-feng
Xidian University, Xi'an, 710071, China.

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Chongqing University, Chongqing, 400044, China.

1.1.5: A Secure Communication Scheme Based on Symbolic Dynamics
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Chongqing University, Chongqing, 400044, China.

1.1.6: A Fault-Tolerant Multi Conference-Key Agreement Protocol
SHI Tingjun, GUO Yuanbo, MA Jianfeng
Xidian University, Xi'an, 710071, China.

1.1.7: A Survey of Authorization Based Active Networks Security
Tang Yin, GongYa Feng
P.O. 984 No.29, Beijing 100091

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Meeting Room: ICC1

Chair: Wai Ho Mow
Co-Chair: Hongyu Zhang

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Wang Lin, Xiao Juan, Guanrong Chen
Xiamen University, Xiamen, 361005, China.
1.2.2: Adaptive LDPC in Image Transmission under Rayleigh Fading Channel
Yuling Zhang, Dongfeng Yuan, Haigang Zhang, Haixia Zhang
Shandong University, Jinan, Shandong, 250100, China.

1.2.3: Multisource Network Coding with Two Sinks
C.K.Ngai, R.W.Yeung
The Chinese University of HongKong, Shatin, New Territories, HongKong SAR.

1.2.4: A Chaotic Interleaver Used in Turbo Codes
Hongyu Zhang, Lin Wang, Qingsheng Yuan, Hongxia Wang, Juebang Yu
UESTC, Chengdu, 610054, China

1.2.5: Searching for the Best Biphase and Quadriphase Quasi-Barker Sequences
Ka Ming Ho, Wai Ho Mow
Hong Kong UST, Clear Water Bay, Hong Kong S.A.R., China

1.2.6: Turbo Decoding of Product Code based on SPC Component Decoding
Yong Liang Guan, Oktoryan Taufandi Sjahfiri, Mohammad Ridwan Septadi, Hiau Choon Kee
School of EEE, Nanyang Technological University, Nanyang Avenue, Singapore 639798.

Session 1.3: Modulation and CDMA/OFDM Systems
Meeting Room: ICC1
Chair: Y. L. Guan
Co-Chair: Yaohuan Gong

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Southeast University, Nanjing, 210096, China

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National University of Singapore, Singapore, 119260

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Nanyang Technological University

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G. Tong Zhou, Robert J. Baxley, Ning Chen
Georgia Tech, Atlanta, GA, 30332-0250, USA

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Hua Rui, Xiaofei Zhang, DaZhuang Xu
Nanjing University of Aeronautics and Astronautics, Nanjing, 210016, China.

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Wei Cheng, Jue Wang
Chinese Academy of Sciences, Beijing, 100080, China.
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Meeting Room: ICC1

Chair: C. K. Ngai
Co-Chair: Ping Wei

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   Nanjing University of Aeronautics & Astronautics, Nanjing, Jiangsu, 210016, China

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   School of EEE, Nanyang Technological University, Nanyang Avenue, Singapore 639798

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   Xiaoli Wang, Lei Huang, Chi Chung Ko
   Department of ECE, National University of Singapore, 117576, Singapore

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   Xiangwei Zhu, Feixue Wang
   National University of Defense Technology, Changsha, 410073, China.

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   Lichun Li, Chongsen Ran, Feng Wei
   Information Engineering University, Zhenzhou 450002, China

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   Hua Xu, Zupeng Li, Hui Zheng
   IETTC, Chengdu, 610041, China

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   Yuanming Wu, Ting Cheng, Jiyan Huang
   UESTC, Chengdu, 610054, China.

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Chair: Wai Ho Mow
Co-Chair: Derong Liu

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   The Second Artillery Engineering College, Xi’an, 710025, China.

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Derong Liu, Hossein Zare
University of Illinois at Chicago Chicago, IL 60607, USA

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Tao Li, Wai Ho Mow, Khaled Ben Letaief
Hong Kong University of Science & Technology Clear Water Bay, Hong Kong, China

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Meeting Room: ICC2

Chair: Yaohuan Gong
Co-Chair: ShenShih Wang

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Shouyin Liu, Guangming Huang, JongWha Chong
China Normal University Wuhan, 430079, China

2.2.2: A New Application of DS-CDMA in BLAST Systems

Yongzhao LI, Guisheng LAO, Feng WANG
P.O.Box.133 Xidian University Xi'an, 710071, China.

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Weiyu Xu, Youzheng Wang, Zucheng Zhou, Jing Wang
Tsinghua University Beijing, China

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LI Xin, NIE Zai-ping
UESTC,610054, China.

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Beijing University of Posts and Telecommunications China

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Anxin Li, Youzheng Wang, Weiyu Xu, Zucheng Zhou
Tsinghua University Beijing, 100084, China.

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Tsinghua University Beijing 100084, China.

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Beijing University of Posts and Telecommunications Beijing, 100876, China.

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Beijing University of Posts and Telecommunications, China.

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Hongji Xu, Ju Liu
School of Information Science and Engineering, Shandong University, China.

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Nanyang Technological University, Nanyang Avenue, Singapore (639798), Singapore

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Chair: Hsu-Jui Chang
Co-Chair: Yuming Mao

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King Fahd University of Petroleum and Minerals, P.O.Box 1387 Dhahran 31261, Saudi Arabia.

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Beijing University of Posts & Telecommunications, China

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Peking University, China

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Department of Electronics, Peking University, China

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Chair: Sanchi Rattananon
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PLA University of Science and Technology Nanjing, 210007, China.

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Chair: Kung Yao
Co-Chair: Ping Wei

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Chonbuk National University, Korea

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University of California Los Angeles, USA

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Huazhong University of Science and Technology, Wuhan 430074, China.

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Xi’an Jiaotong University, Xi’an, Shaanxi, China

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Chair: Apichan Kanjanavapastit
Co-Chair: Shen Shih Wang

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Shanghai Research Center for Wireless Communications, 210050, China.

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Chair: Kung Yao
Co-Chair: Apichan Kanjanavapastit

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Shandong University, Jinan, Shandong, 250100, China

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Tiejun Wang
University of California, San Diego La Jolla, CA 92093-0407, USA

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Du Jia Kan, Feng Tai District of Beijing, 100072, China

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Shanghai Research Center for Wireless Communications, 210050, China.

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Joachim Sachs, Henning Wiemann, Per Magnusson, Pontus Wallentin, Johan Lundsj
Ericsson Research, Corporate Unit

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Chair: Yuming Mao
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Beijing University of Post and Telecommunications, P.O.Box 117, Beijing, 100876, China

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UESTC, Chengdu 610054, China

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Southwest Jiaotong University, Chengdu, 610031, China

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Tigang Jiang
Southwest Jiaotong University, Chengdu, 610031, China

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Tigang Jiang, Pingzhi Fan
Southwest Jiaotong University, Chengdu, 610031, China

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UESTC, Chengdu, 610054, China.

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Shanghai Jiaotong University, Shanghai, 200030, China.

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China Unicom Sichuan Branch, Chengdu 610036, China

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Meeting Room: ECB1

Chair: Xianci Xiao
Co-Chair: Qin Xing

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Zhiwen Xu, Xiaoxin Guo, Yunjie Pang, Zhengxuan Wang
Ji lin University, Changchun City, 130021, China

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Hongfei Liu, Juchuan Hu, Hongke Zhang, Jianbo Zhang
Engineering of Beijing Jiao Tong University, Beijing, 100044, China.

3.1.3: A flexible self-adaptable scheduling model for QoS multimedia provision
Yunbo Wu, Zhishu Li, Zhihua Cheng, Wang Hu
School of Computer Science, SiChuang University

3.1.4: A QoS Routing Algorithm Based on Service Resource Provision Balance between Application and Networks
Hu Juchuan, Liu Hongfei, Yang Xiaoliang, Zhang Hongke, Zhang Sidong
Beijing JiaoTong University, Beijing, 100044, China

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The Hong Kong Polytechnic University

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Data Systems Group School of Computer Science, University of Central Florida

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Chair: Ning Jiang
Co-Chair: Xiaofeng Li

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Ping An, Chaohui Liu, Zhaoyang Zhang
Shanghai University, 149 Yanchang Road, Shanghai 200072, China

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Yanfei Shen, Dongming Zhang, Chao Huang, Jintao Li.
Institute of Computing Technology of Chinese Academy of Sciences

3.2.3: Dct-based embedded coding scheme for stereo image
Jungong Han, Zhaoyang Lu
XiDian University, Xi'an, 710071, China

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Qin Xing, Zhejiang University, Hangzhou, China

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Meeting Room: ECB1

Chair: Lei Zhang
Co-Chair: Jorge Sa Silva

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Shiguo Lian, Zhiquan Wang, Jinsheng Sun
Nanjing University of Science and Technology, Nanjing, 210094, China

3.3.2: A Scalable RTT Estimation Algorithm for Multicast Congestion Control
Jin Zhao, FuYan Zhang
Dept. CS, Nanjing Univ.

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Si Duanfeng, Long Qin, Han Xinhui, Zou Wei
Peking University, Beijing, 100871, China

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Huazhong University of Science and Technology

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Zhiwei Qu, Yan Chen, Zhenhua Zhang, Boon-Lock Yeo
Software School, Shanghai Jiaotong University, 200240, PR China.

3.3.6: A Serial and Non-collision Hash Algorithm
Fengjun Shang
Chongqing University of Posts and Telecommunications, Chongqing, 400065, China

3.3.7: A reliable multicast routing algorithm based on reliability test in multimedia communication
Xiaogang Qi, Lifang Liu, Sanyang Liu, Junfeng Qiao
Xidian University, Xi'an 710071, China

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Chair: Kun Qiu
Co-Chair: Yongzhi Liu

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UESTC, Chengdu, 610054, China.

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Nanyang Drive Research TechnoPlaza, Nanyang Technological University, Singapore 637553

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Nanyang Technological University, Singapore

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Xiaoyong Gan, Yongzhi Liu, Xiaoxia Zhang
UESTC, Chengdu, 610054, China.

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UESTC, Chengdu 610054

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Beijing University of Posts & Telecommunications, Beijing, 100876, China.

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UESTC, Chengdu 610054, China

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Meeting Room: ECB2

Chair: Lemin Li
Co-Chair: Kuo-Bin Tseng

4.2.1: A Differentiated Shared Protection Algorithm Supporting Traffic Grooming in WDM Mesh Networks
Bing Xiang, Hongfang Yu, Sheng Wang, Lemin Li
UESTC, Chengdu 610054, China

4.2.2: QoS-specified Traffic Grooming Algorithm in WDM Mesh Networks
Bing Xiang, Hongfang Yu, Sheng Wang, Lemin Li
UESTC, Chengdu 610054, China

4.2.3: A QoS-based Differentiated Protection Algorithm in WDM Mesh Networks
Bing Xiang, Hongfang Yu, Sheng Wang, Lemin Li
UESTC, Chengdu 610054, China

4.2.4: Dynamic Shared-Path Protection Based on SRLG Constraints in WDM Mesh Networks
Lei Guo, Hongfang Yu, Lemin Li
UESTC, Chengdu 610054, China

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4.2.5: Dynamic Protection-at-lightpath Algorithms in Grooming WDM Mesh Networks
Rongxi He, Hongfang Yu, Haibo Wen, Lemin Li
Dalian Maritime University Dalian 116026, China.

4.2.6: A Novel Wavelength Assignment Approach in SONET/WDM Rings for Uniform Traffic
Zou Wei, Hua Yu, Zhao Yan, Jin Shan
Alcatel-Shanghai Bell Co., Ltd. Shanghai, China, 201206

Session 4.3: Traffic Control and IPv6 Topics
Meeting Room: ECB2
Chair: Kuo-Bin Tseng
Co-Chair: Shen Wang

4.3.1: Loss Property of Photonic Bandgap Fiber Made of High-index Cylinders in Low-index Host Material
Min Yan, Hairong Liu, Ping Shum
Nanyang Technological University, Singapore 637553

4.3.2: Delay and Throughput Performance Analysis of RPR's Three Priorities Traffic
Shengyuan Zhou, Faliang Ao, Mingsong Chen
Guilin Institute of Electronic Technology Guilin, 541004, China

4.3.3: FEC Performance of Optical Communication Systems with PMD and Wavelength Interleaving
Bing XIE, Yong Liang GUAN, Zhihong LI, Chao LU
EEE School, Nanyang Technological University, Singapore. 639798

4.3.4: A Multi-Dimensional Packet Classification Algorithm
Xingmiao Yao, Guangming Hu, Lemin Li
UESTC, Chengdu, 610054, China.

4.3.5: A Fast IPv6 Route Lookup Algorithm with Hash Compression
Xingmiao Yao, Lemin Li, Guangming Hu
UESTC, Chengdu, 610054, China.

4.3.6: RD-RACE: An improved TCP Rate Control Mechanism in Ethernet
Yibo Zhang, Zhenming Lei
Beijing Univ. of Posts and Telecom. Beijing, 100876, China.

4.3.7: Nonlinear-Periodical Network Traffic Behavioral Forecast on Seasonal Neural Network Model
Cheng Guang, Gong Jian, Ding Wei
Southeast University (Nanjing City 210096)

Session 4.4: Scheduling and Routing Issues
Meeting Room: ECB2
Chair: Xiaohong Tang
Co-Chair: Du Xu

4.4.1: A QoS-based Batch Scheduling Algorithm in Optical Burst Switching WDM Networks
   Wei Tan, Y.H.Pan, Du Xu, Sheng Wang, Lemin Li, Zhizhong Zhang
   UESTC, Chengdu, 610054, China.

4.4.2: The iTFF Scheduling Algorithm for Input-Queued Switches
   Peng Wang, Hongbo Fang, Depeng Jin, LieGuang Zeng, Fang Tao
   Tsinghua University, Beijing, 100084, China

4.4.3: A New RPR Fairness Algorithm Based On Deficit Round Robin Scheduling Algorithm
   Hongbo Fang, Peng Wang, Depeng Jin, Lieguang Zeng
   Tsinghua University, Beijing, 100084, China

4.4.4: An Enhanced Algorithm for Multiple Constraints Optimal Path Calculation
   Heng Wang, Hong Wang, Lemin Li
   UESTC, Chengdu, 610054, China.

4.4.5: An Efficient Multicast Routing Algorithm in WDM Networks
   Kuo-Bin Tseng, Jhin-Fang Huang
   National Taiwan University of Science and Technology, Taipei, 106, Taiwan, R.O.C.

4.4.6: Analytical Model for Permutation Capacity Analysis on a Nonblocking WDM Switch
   Hongbin Luo, Gang Hu, Lemin Li
   UESTC, Chengdu, 610054, China.

4.4.7: Performance Evaluation of Optical Burst Switch Core Without Wavelength Converters
   Du Xu, Sheng Wang
   UESTC, Chengdu, 610054, China.