## CONTENTS

<p>| MA01-1 | Equilibrium Point Analysis of a TDD-WCDMA MAC Protocol | 1 |
| MA01-2 | Implementation of DSP-Based Digital Receiver for the SDR Application | 6 |
| MA01-3 | Performance Analysis of An Improved Adaptive PIC Receiver for CDMA Systems | 11 |
| MA01-4 | Cancellation Moderating Factor Controlling Scheme Using Signal Power Ratio for Multi-Antenna CDMA Interference Canceller | 16 |
| MA01-5 | Adaptive Poling List Arrangement Scheme for Voice Transmission with PCF in Wireless LANs | 21 |
| MA02-1 | Application of QR Decomposition to Design of Space-Time Codes for MIMO systems | 26 |
| MA02-2 | A Simplified Method for V-BLAST Detection in MIMO OFDM Communication | 30 |
| MA02-3 | A Fast Recursive Sphere Decoder with Linear Storage | 34 |
| MA02-4 | A New Transmit Diversity Analysis for Noncoherent Space-Time Modulation | 39 |
| MA03-1 | Investigation of TDD and FDD CDMA Coexistence in the Macro Environment Employing Smart Antenna Techniques | 43 |
| MA03-2 | Optimize Channel Estimation for WCDMA | 48 |
| MA03-3 | Framework for Multirate Transmission in Orthogonal Code Hopping Multiplexing | 53 |
| MA03-4 | Multilevel Transmission Technology for Broadcasting Data | 58 |
| MA03-5 | OVO in a dynamically expanding 3G environment: Challenges and Solutions of a large scale deployment | 62 |
| MA03-6 | Advanced HARQ and Scheduler Schemes in TDD-CDMA HSDPA Systems | 67 |
| MA04-1 | A New Channel Assignment Strategy towards the Wireless Mesh Network | 71 |
| MA04-2 | Adaptive Channel Allocation Schemes for Wireless PCN: A Genetic Algorithm Approach | 76 |</p>
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA04-3</td>
<td>Symbol Repetition and Power Re-allocation Scheme for Orthogonal Code Hopping Multiplexing Systems</td>
<td>Bang Chul Jung, Jae Hoon Chung, Dan Keun Sung</td>
</tr>
<tr>
<td>MA04-4</td>
<td>The Optimal Power Allocation Policies with Perfect Channel Side Information and Buffer State Information</td>
<td>Wei Chen, Pingyi Fan, Zhigang Cao</td>
</tr>
<tr>
<td>MA04-5</td>
<td>An Integrated Subchannel Scheduling Algorithm for Adaptive Modulation And Coding (AMC) MIMO-OFDM Wireless Systems</td>
<td>Lei Li, Zhisheng Niu</td>
</tr>
<tr>
<td>MA05-1</td>
<td>Studies on Large Scale Reliable Multicast Based on Active Network</td>
<td>Zhang Jianzhong, Xu Jingdong, Wu Gongyi, Zheng Rui</td>
</tr>
<tr>
<td>MA05-2</td>
<td>DFQ with CSFQ: Low Complexity Scheduler for Low Delay Bounds Flows</td>
<td>Kohei Ono, Takuya Asaka, Tatsuo TakaHashi</td>
</tr>
<tr>
<td>MA05-3</td>
<td>Scheduling with Relaxed Constraint for ATM-like Input-Queued Crossbar Switching Fabric in IP Router</td>
<td>Lixiang Xiong, Don Platt, Guoqiang Mao</td>
</tr>
<tr>
<td>MA05-4</td>
<td>A Scalable IPv6 Multihoming Mechanism Based on Controlled Path Advertisement</td>
<td>Young-Hwan Choi, Sang-Ha Kim, Jung-Soo Park, Hyoung-Jun Kim</td>
</tr>
<tr>
<td>MA06-1</td>
<td>Relation between Willingness to Pay and Guaranteed Minimum Bandwidth in Multiple-Priority Service</td>
<td>Kyoko Yamori, Yoshiaki Tanaka</td>
</tr>
<tr>
<td>MA06-2</td>
<td>Virtual Path Hopping to overcome Network Failures due to Control Plane Failures in Connection Oriented Networks</td>
<td>Manodha Gamage, Mitsuo Hayasaka, Shinji Sugawara, Minoru Terada, Tetsuya MIKI</td>
</tr>
<tr>
<td>MA06-3</td>
<td>Transport Service for Session Initiation Protocol In SIP-T Scenarios</td>
<td>Luigi Alcuri, Miochele L. Fasciana</td>
</tr>
<tr>
<td>MA06-4</td>
<td>Optimal Resource Allocation Scheme For Maximizing Revenue in The Future IP Networks</td>
<td>Jian Zhang, Timo Hamalainen, Jyrki Joutsensalo</td>
</tr>
<tr>
<td>MA11-1</td>
<td>Experimental Performance Analysis of IEEE802.11a/B Operating At 2.4 And 5.3ghz</td>
<td>Jae-Woo Lim, Yong-Sub Shin, Jang-Gwan Yook</td>
</tr>
<tr>
<td>MA11-2</td>
<td>VPN connection for an extended LAN service in the Mobile Multimedia Metropolitan Area Network</td>
<td>Xin Gong, Liang Zhang, Takahiko Yamada</td>
</tr>
<tr>
<td>MA11-3</td>
<td>Enhancement of Mesh Network Oriented IEEE802.11 MAC Protocol</td>
<td>Akira Yamada, Atsushi Fujiwara, Yoichi Matsutomo</td>
</tr>
<tr>
<td>MA11-4</td>
<td>Performance Analysis and Improvement of IEEE 802.11 WLAN</td>
<td>Chen Yu Zhong, Kai Cai Hong, Geng Yanhui, Li Feng</td>
</tr>
<tr>
<td>MA11-5</td>
<td>Dynamic Polling Management for QoS Differentiation in IEEE 802.11e Wireless LANs</td>
<td>Xiyan Ma, Yanfeng Zhu, Zhisheng Niu</td>
</tr>
<tr>
<td>MA12-1</td>
<td>Asymptotic Analysis on Maximum-Likelihood Criterion for Multiuser</td>
<td></td>
</tr>
</tbody>
</table>
Multiple-Input Multiple-Output Systems
Joseph Chuheh, Yonghui Li, Branka Vucetic

MA12-2
Adaptive V-BLAST with Partial Channel State Information Feedback
Jinjing Jiang, Yan Zhu, Cong Shen, Shunliang Mei

MA12-3
Distributed MIMO-CDMA System: Effects of the Spreading Sequences on Sum Capacity
Zhi Ni, Daoben Li

MA12-4
A Novel Adaptive MIMO Precoding Scheme for VBLAST Systems
Yan Zhu, Shidong Zhou, Jing Wang, Jinjing Jiang

MA13-1
Effects of Angular Spread on Smart Antenna System with Uniformly Linear Antenna Array
Weifeng Cao, Wenbo Wang

MA13-2
Performance Analysis of 1XEV-DO Systems under Realistic Traffic Models and Limited-Size IP Backhaul
Rangsan Leelahakriengkrai, Ivan Vukovic, Eric Chan, Scott Clapp, Igor Fillpovich, Karl Knutson

MA13-3
An Effective Channel Estimation Method in Multi-band UWB System
Wen Lei, Cai Qimei, Tao Xiaofeng, Zhang Ping

MA13-4
Protocol Accelerator Design for IEEE 802.15.3 MAC Implementation
Xu Ningyi, Lou Dongjun, Zhou Zucheng

MA13-5
Speed-Aware Resource Allocation and Transmission Scheme for the Uplink Channel of Highly Mobile MC-CDMA Systems
Luis Loyola, Tetsuya Miki

MA14-1
A Utilization Improving Scheme for On-board Buffer in Satellite ATM
Lu Rong, Cao Zhi-Gang

MA14-2
Mathematical Approach to a Dynamic Hybrid Satellite and Terrestrial Networks Design Problem
H. Kwok, B. S. Yeo, L. F. Turner

MA14-3
Analysis and Simulation of the Interference produced to the Fixed Service Receivers by the Mobile Satellite Service in a maritime environment in the Ku Band
Maria Koletta, Vasilis Milas, Philip Constantinou

MA14-4
A Simple Feedforward Timing Offsets Estimation Algorithm for BPSK/QPSK
Yongjun Deng, Zhixing Yang, Xinbo Guo

MA15-1
The design of congestion manageable multiprocessor interconnects in a high capacity router
Bup-Joong Kim, Hak-Suh Kim, Byungjun Ahn

MA15-2
A Point to Multipoint Routing Algorithm Based on Source Routing
Hyun Soon Shin, Kee Seong Cho, Sang Ho Lee

MA15-3
Multi-Constrained Pre-Computation based Selective Probing (MC-PCSP) Scheme for Distributed QoS Routing
Won-Ick Lee, Byeong Gi Lee

MA15-4
PTGRP: An LBS Application Based on SMS Platform
Li Gang, Feng Shang, Shen Jun, Jin Ye, Feng Meiping

MA16-1
The Evaluation of Poisson Packet Sampling Measurement Techniques

3
Feng ZHANG, Zhenming LEI
MA16-2 A Framework for Selecting Appropriate Content Delivery Server Considering Round-Trip Time and Actual Serving Calls
Sang-Hee Han, Sang-Sik Kim, Sang-Ha Kim

MA16-3 Evaluation on stability enhancement of parallel downloading
Junichi Funasaki, Kenji Ishida

MA16-4 The Implementation of Universal Switch Fabric for Switch and Router System
YongWook Ra, Byungjun Ahn

TM01-1 Effect of Carrier Sensing Range in a Network Architecture with a Multi-Sector Antenna Based Access Point and Omni-Directional Mobile Nodes
Ho Young Hwang, Nah-Oak Song, Dan Keun Sung, Nader Moayeri

TM01-2 A Traffic Probing Based Handoff Algorithm for Heterogeneous Networks
Junfeng Jiang, Pingyi Fan, Zhigang Cao

TM01-3 Performance Evaluation of The Frame Bursting Method for High Speed Wireless LAN Systems With Multirate Mechanism
Shinya OTSUJI, Tomoaki KUMAGAI, Kengo NAGATA, Satoru AIKAWA

TM01-4 Admission Control for Variable Bit Rate traffic in IEEE 802.11e WLANs
Wing Fai Fan, Deyun Gao, Danny H.K. Tsang, Brahim Bensaou

TM01-5 Novel Design and Implementation of IEEE 802.11 Medium Access Control
Yu Cai, Fei Luo, Hao Zhang, Zucheng Zhou

TM02-1 Space-Time Trellis Codes with Linear Transformation for Fast Fading Channels
Yonghui Li, Yang Tang, Joseph Chuea, Branka Vucetic

TM02-2 Cooperation Diversity Using Differential Distributed Space-Time Codes
Genyuan Wang, Yimin Zhang, Moeness Amin

TM02-3 Performance Evaluation of MIMO Systems in a Mixture of Gaussian Noise and Impulsive Noise
Anxin Li, Youzheng Wang, Weiyou Xu, Zucheng Zhou

TM02-4 Channel Estimation Method for 802.11a WLAN with Multiple-Antenna
Shenghao Yang, Yaping Zhao

TM02-5 Adaptive Transmission in Spatial Multiplexing System with Zero Forcing Receiver
Kai Zhang, Zhisheng Niu

TM03-1 Robust Beamforming with Array Shape Distortion Dependent Diagonal Loading
Biao Jiang, Ye Zhu, Changyu Sun

TM03-2 Improved Implementation of MDCT in MP3 Audio Coding
Vladimir Nikolajevic, Gerhard Fettweis

TM03-3 Stack Based Detection Algorithms for V-BLAST Wireless System
Weiyou Xu, Youzheng Wang, Zucheng Zhou, Jing Wang

TM03-4 Design for High-Speed RS-CODEC Based on Galois-Field Arithmetics
Sungsoo Choi, Kiseon Kim, Kwan-Ho Kim

TM03-5 Asynchronous Track Fusion in a Multi-scale sensor Environment
Yue Shi, Yuhan Dong, Xiuming Shan

TM04-1 Improved Linear Decorrelating Detector on Chip Level in Multiple Antenna CDMA System
Gang Wang, Daoben Li
| TM04-2 | A Novel Blind Moc Adaptive Space-Time Multiuser Detection Scheme  
*Ling-yun Lu, Yang Xiao* |
|--------|------------------------------------------------------------------|
| TM04-3 | Exploiting Frequency Diversity for Blind Channel Estimation in Block Precoded  
*OFDM Systems  
*Yi MA, Yi Huang, Na Yi* |
| TM04-4 | A Timing Recovery Scheme for Pulse Shaped 4-CPFSK with h=0.25  
*Zhijian Yu, Minjian Zhao, Lifeng Liu, Peiltang Qiu* |
| TM04-5 | On the Aging of Landmark-based Coordinates  
*Xiaoming Zhou, Piet Van Mieghem* |
| TM04-6 | An Interval Estimate for the Number of Signals  
*Pinyuen CHEN* |
| TM05-1 | A predictive PID controller for AQM router supporting TCP with ECN  
*Ruijun Zhu, Haitao Teng, X. Jingdan Fu* |
| TM05-2 | Fuzzy Approximate Fair Dropping Using Genetic Algorithm Optimization  
*Lichang Che, Bin Qiu* |
| TM05-3 | Multi-rate model of the limited-availability group with finite source population  
*Mariusz Głaowski, Maciej Stasiak* |
| TM05-4 | Network State Information Aided Scheduling Algorithms with Statistical Guarantees  
*Wang Lei, Ma Zhengxin, Han Linna, Cao Zhigang* |
| TM05-5 | Performance evaluation of the DYnamic system for CODECS MAngement:  
*DY,CO,MA  
*Luigi Alcuri, Francesco Saitta, Michele Fasciana* |
| TM05-6 | A Distributed Multipath Algorithm for Providing Bandwidth Guaranteed Routing  
*Sajjad Zarifzadeh, Hossein Mohammadi, Hamed Khanmirza, Nasser Yazdani* |
| TM06-1 | Priority Control for Photonic Burst Networks  
*Yoshinori Sugimoto, Shinji Sugawara, Naoto Kishi, Tetsuya Miki* |
| TM06-2 | An Efficient Contention Resolution Based on FDL and TWC For OPS Networks  
*Bin Lu, Xiaolong Yang, Min Zhang, Lemin Li* |
| TM06-3 | The Limitation of Initial Chirp and Higher-Order PMD to 40G bit/s Optical  
*Transmission Systems  
*Hongxiang Wang, Yuefeng Ji* |
| TM06-4 | Shared Sub-Path Protection Algorithm for Multi-Link Failure in WDM Mesh  
*Networks  
*Lei Guo, Hongfang Yu, Lemin Li* |
| TM11-1 | Analysis of the 2-Hop Time Division Relaying System Performance with Optimal  
*Power Allocation  
*Shao Chunju, Zhang Jingmei, Wang Ying, Zhang Ping* |
| TM11-2 | A SIP-based Multicast Framework in MANET  
*Ying Yu, Anjali Agarwal* |
| TM11-3 | Organic Sensor Networks for Pervasive Computing  
*Debashis Saha, Anirban Banerjee* |
| TM11-4 | A Robust AODV Protocol With Local Update  
*Suhua TANG, Bing Zhang* |
| TM12-1 | Performance Analysis of DS/CDMA Communication System Considering the  
*Debashis Saha, Anirban Banerjee* |
Nonlinear HPA
Kang Mi Lee, YingShan Li, Sang-Woo Kim, Jong-Hyun Park , Heung-Gyoon Ryu

The Drive Test Implementation Strategy for CDMA 2000 Operator in Indonesia
Marindra Bawono

Influence of Electrical Parameters on UHF Radio Propagation in Tunnels
SUN Jiping, CHENG Lingfei, LIU Xiaoyang

Study on a Loop Filter in symbol-timing Track Loop for Software Receiver
Lifeng Liu, Mingjian Zhao, Zhijian Yu

New Considerations for High Frequency Communications
Shuzheng Xu, Hui Zhang, Huazhong Yang, Hui Wang

A general multiuser detection method for DS-CDMA system
Shi Kun, Zhang Xudong

Passive Stationary Target Positioning Using Adaptive Particle Filter with TDOA and
FDOA Measurements
Ping Zou, Zhen Huang, Jianhua Lu

An ELFN-Based TCP-Freeze Scheme Using the Route Information of Sender Node
for Ad Hoc Networks
Bing Zhang, M. N. Shirazi, Bokuji Komiyama

Multifractal Queue Tail Analysis Based On Wavelet
Hong Fei,Zhao Zhuang, Wang Ying

Frequency Searching method of Motive Parameters Estimation
Qun Wan, Xiao-Feng Shen, Heng Dou, Wan-Lin Yang, Ying-Ning Peng

A Data-aided Time Domain Channel Estimation Method
Yongsheng Zhang, Yan Du, Wei Zhang, Xinzheng Wang, Jun Li

Genetic Designing of Near-Optimal Training Sequences for Spatial Multiplexing
Transmissions
Toshiaki Koike, Susumu Yoshida

User Identification Detector based on Power of R Technique
Chun-Jung WANG, Yuan-AN LIU

A Software Phase-Locked Loop Based on the Novel Method of Dynamical
Observation Interval
Zhengqi Chen, Zhigang Cao

Evaluation of Single Antenna Interference Cancellation in Synchronous GSM
System
Zhigang Tian, Wenbin Guo, Dacheng Yang

A Congestion Control Algorithm for Video Stream over Packet Switched Networks
Yuqing Zhang, Jinfeng Zou, Libin Zhang, Kai Huang

Resource Discovery and Fair Intelligent Admission Control over Differentiated
Services Networks for Variable-Length Packets
Ming Li, Doan B. Hoang

Cell Loss Recovery using Adaptive LDPC-based FEC Method for Real Time
Services over Best Effort Networks
Mitsuo Hayasaka, Manodha Gamage, Tetsuya Miki

Robust $H_{\infty}$ Congestion Control in Differentiated Services Communication

Networks
Mahdi Jalili-Kharaajoo

TM15-5 Evaluation of the MXQ Mechanism by Audio and Video Applications
Kazuaki OBANA, Takashi SHIMIZU, Tskahiro MUROOKA, Kazuhiro HAYASHI, Kimio OGUCHI

TM16-1 Full-optical Spectrum Analyzer Design Using EIT based Fabry-perot Interferometer
A. Rostami

TM16-2 Performance of Distributed Control Protocol of WR-OBS Systems
Zhou Lan, Hong xiang Guo, Jian Wu, Jin Tong Lin

TM16-3 Optical Burst Switching for Metropolitan Area Networks
Yinghui Qiu, Yuefeng Ji, Daxiong Xu, Zehua Gao

TM16-4 Experimental Study of the Transient Power Overshoot in Backward-Pumped Raman Amplified WDM Systems
Zheng Lei, Li Juhao, Chen Zhangyuan, Zhang Zhaoyi, Wu Deming

TA01-1 Evaluation of Dispersion Routing Strategies in Anonymous Communication
Huawei Li, Yinghua Min, Zhongchong Li

TA01-2 A Distributed Threshold Signature Algorithm on Canon of Probability
Li Feng, YU NengHai, XIAN GaoYan, ZHENG YuFeng

TA01-3 Redirection based Defense Mechanism against Flood-type Attack in Large-scale ISP Networks
Takafumi Hamano, Ryoichi Suzuki, Takashi Ikegawa, Hiroyuki Ichikawa

TA01-4 Implementation and Overhead Analysis of a Log-Based Intrusion Recovery Module for Linux File System
Jae Kook Lee, Hyong Shik Kim

TA02-1 Compact Multi-Probe Antenna Test Station For Rapid Testing of Antennas and Wireless Terminals
Luc Duchesne, Philippe Garreau, Nicolas Robic, Arnaud Gandois, Per Olars Iversen, and Glanni Barone

TA02-2 Linearized Doherty Amplifier using a New Digital Predistorter Compensating Frequency-Dependent Intermodulation Distortions for Mobile Radio
Yasunori Suzuki, Shinji Mizuta, Tetsuo Hirota, Yasushi Yamao

TA02-3 An Adaptive Impedance Matching System and Considerations for a Better Performance
Ichirou IIDA, Jun-ichi TAKADA, Takeshi TODA, Yasuyuki OISHI

TA02-4 Novel Resonators with Applying Binomial Coefficients Admittance Values to Design Multi-Frequency Bands of Microstrip Filters
Mao-Hsiu Hsu, Jhin-Fang Huang

TA02-5 Design of a Feed Horn for a FWA Base Station Antenna through FDTD Method
Atsushi Kezuka, Yoshihide Yamada, Yasuhiro Kazama

TA05-1 Overlay Model Based QoS Architecture
Minghai Xu, Zhengkun Mi, Beibei Cai

TA05-2 ADPQ: Adaptive Priority Queuing
Hamed Khanmirza, Sajjad Zarifzadeh, Naser Yazdani

TA05-3 A new practical packet loss estimator for MPLS VPN Services

514
519
522
527
531
534
539
543
548
553
558
563
568
573
577
582
587
Dongli Zhang, Dan Ionescu

TA05-4 A model predictive control approach for guaranteed proportional delay in DiffServ architecture
Mehran Mahramian Moallem, Hassan Taheri

TA05-5 An Adaptive Receiver Buffer Adjust Algorithm for VoIP Applications Considering Voice Characters
Jing Liu, Zhisheng Niu

TA06-1 Fairness-based Dynamic Traffic Grooming in WDM Mesh Networks
Rongxi He, Haibo Wen, Lemin Li

TA06-2 A Study of Routing Models for Multi-layer Service Network Architecture
Hisashi Kojima, Takashi Kurimoto, Tomonori Takeda, Ichiro Inoue, Shigeo Urushidani

TA06-3 Layer 1 VPN Architecture and its Evaluation
Tomonori TAKEDA, Hisashi KOJIMA, Ichiro INOUE

TA06-4 Design concept of bidirectional WDM add/drop networks with improved reconfigurability
H. Obara, M. Sakata

TA06-5 TCP performance analysis of optical burst switching networks with a burst acknowledgment mechanism
Ping Du, Shunji Abe

TA11-1 IGAP: Secure group management protocol for multicast Content Delivering Network
Tsunemasa Hayashi, Akihiro Tanabe, Daisuke Ando, Kaori Izutsu, Hiroaki Satou

TA11-2 Secure Watermark Detection Schemes
Liu Yongliang, Wen Gao, Shaohui Liu

TA11-3 A Blind Watermarking Algorithm Based on DWT for Color Image
Zhang Guannan, Wang Shuxan, Nian Guijun

TA11-4 Multimedia Security in the Distributed Environment
Liu Yongliang, Wen Gao, Shaohui Liu

TA11-5 Implanting a DNS server into the SSFNet
Jong-hyun Han, Y. Alkhimov, Gihyun Jung, Seungkyu Park, Kyunghee Choi, Joo Beom Yun, Jung Taek Seo

TA12-1 A New Hybrid Method to Calculation a Self Admittance of a Longitudinal Waveguide Slot Radiating between Baffles
Zahra Atashaf, Keyvan Forooraghi

TA12-2 Miniaturization of a Small Meander Line Antenna by Loading a Higher Material
Naobumi Michishita, Yoshihide Yamada, Nobuaki Nakakura

TA12-3 Design Considerations of Planar Inverted-F Antenna (PIFA) on a Finite Ground Plane
Jian-Wei He, Kah-Seng Chung

TA12-4 Calibration of Dipole Array with Reflector Using Method of Images
Hiroyoshi Yamada, Rokuzou Hara, Yoshio Yamaguchi

TA12-5 A study on miniaturization of a handset antenna utilizing magnetic materials
Tomoki Tanaka, Shogo Hayashida, Kazufumi Imamura, Hisashi Morishita, Yoshio
Koyanagi

TA12-6
I-shaped Self-Complementary Antenna Analyses Based on the Experiment and Simulation
Pu Xu, Kyohei Fujimoto, Masao Sakuma

TA13-1
An Automatic sliding-window template matching method for geometric correction of LASIS image sequence
Xiangbin Li, Jianhua Lu, Jianfeng Yang

TA13-2
Intermediate image generation using irregular quadtree decomposition
Kyung-tae Kim

TA13-3
A QoS Monitoring Method for Video Streaming Service Based on Presentation-Timeline Detection at User Clients
Yasuhiro Yoshimura, Masao Masugi

TA13-4
Fast I-Frame Searching Algorithm of MPEG Video Stream
Ye Yu, Jianhua Lu, Junli Zheng

TA13-5
A High Parallel-Pipelined Real-time Motion Estimation Architecture for MPEG-4 Simple Profile
Dongjun LOU, Ningyi XU, Xiaokang LIN

TA13-6
A Reliable Layered Data Transmission Method for MPEG-4 Seamless Streaming Service
Kim Sang Hyong, Cho Jae Sang, Yoo Kwan Jong

TA14-1
GPRS network simulation model in NS-2
Qintong Qiu, Dongmei Zhang, Jian Ma

TA14-2
A Simulation Platform for Wireless Ad Hoc Network
XiaoFeng ZHONG, Youzheng WANG, Shunliang MEI, Jing WNAG

TA14-3
An Adaptive Beam Division for a Visual Simulation of High Frequency Electromagnetic Wave Propagation
Xiaoyi Cao, Mitsunori Makino, Hiroshi Shirai, Shoji Shinoda

TA14-4
Implementation of IDS for Network Intrusion Simulation based on SSFNet
Jin Hyuk Kim, Seung Kyu Park, Jung Kuk, Joo Beom Yun, Dae Sik Choi

TA14-5
Study and Development of Novel Remote Teaching System with Laser Pointer
Shinji Sugawara, Tetsuya Miki

TA14-6
Experimental Issues in Design and Implementation of BODBA Protocol
Nasser Yazdani, Nader Ghasemi, Omid Maroozi, Ali Sedighi, Nasser Rezaee

TA15-1
An improved VLR overflow control scheme for fraudulence detection
Bin Lu, Binghai Chen, Hong Jiang, Lemin Li

TA15-2
Effects of Detach Interval on Periodic Location Update in Mobile Networks
Bin Lu, Hong Jiang, Lemin Li

TA15-3
MOBILE SERVICE PROVISION SYSTEM BASED ON SENSOR AND SIP EVENT NOTIFICATION MECHANISM
Jehun Rhee, Hyunseo Park, Young-Jick Bahg

TA15-4
Optimal Location Management for PCS Networks with Hexagonal Cellular Architectures
Jie Li, Atushi Kubota

TA15-5
On Location of Relay Facilities to Improve Connectivity of Multi-hop Wireless
Networks
Shuji Maruyama, Keisuke Nakano, Kojiro Meguro, Masakazu Sengoku, Shoji Shinoda

TA16-1 A New Structure for Optical Integrated Digital Filters Using Ring Resonators
G. Rostami, A. Rostami

TA16-2 All-optical Pole and Zero Blocks for Implementation of Optical Engineering Systems
G. Rostami, A. Rostami

TA16-3 Research and Design of a Novel Polarization-Maintaining Beam Switch with Isolator Hybrid Component
Xiaohua Ye, Min Zhang, Peida Ye, Zexiong Zhao

TA16-4 Exact Solutions for TM-mode in Inhomogeneous Slab Waveguides
A. Rostami, S. K. Moayedi

TA16-5 A New Hybrid Reservation Scheme for Lightpath Establishment in Wave Division Multiplexed Optical Networks
Debashis Saha, M. L. Bhuvaneswar, V. R. Ravi Kishore

WM01-1 The effect of mismatched filtering on the BER performance of pi/4 shift DQPSK
Dongmin Lim, Young-Jun Chong

WM01-2 Iterative Phase Recovery Method of Turbo-Coded 16qam Based on Soft Symbol to Bit Mapping
Peixin Dong, Pingyi Fan, Li Yi

WM01-3 New Mapping Method for MLC/PDL with Novel Distance Metric
Xinying Gao, Dongfeng Yuan, Chunyao Gao

WM01-4 Power efficient CDMA broadcast system doing without any channel knowledge at the receivers, a non-obvious modification of THP
Wei Qiu, Michael Meurer, Paul Walter Baier, Tobias Weber

WM02-1 Efficient Restoration Capacity Design in MPLS Networks
Guangzi Li, Dongmei Wang

WM02-2 Automatic Testing of Neighbor Discovery Protocol Based on FSM and TTCN
Zhiliang Wang, Xia Yin, Haibin Wang, Jianping Wu

WM02-3 Test Framework for IPv6 Conformance Testing
zhang yjun, li zhongcheng

WM02-4 Context-Aware Quality of Service Control In Session Based IP Networks
Hiroki Ikeda, ZhiSheng NIU, Hui Deng, Shiro TANABE

WM02-5 Embedded ATM Access Point: Optimal Design at Food Court
Kyung Hee Lee, Vinod C. Joseph, Sung Ho Ahn, Ji Young Kwak, Doohyun Kim

WM03-1 Multiuser OFDM with Adaptive Frequency-Time Two-Dimensional Wireless Resource Allocation
Xing Zhang, Wenbo Wang, Yuan'an Liu

WM03-2 The Performance of a Blind Carrier Frequency Offset Tracking Algorithm for OFDM System
Laibo Zheng, Jiandong Hu

WM03-3 Adaptive Frequency Diversity OFDM (AFD-OFDM) Communication System in the Narrow-Band Interference Channel

10
| WM03-4 | Sang-Woo Kim, Jun-Seo Lee, Kang-Mi Lee, Jong-Hyun Park, Heung-Gyoon Ryu | Receiver window design for narrowband interference suppression in IEEE 802.11a system | 839 |
| WM03-5 | Dan Zhang, Pingyi Fan, Zhigang Cao | Spectrum Suppression and BER Improvement in Non-linear OFDM System Using Complementary Sequences with Error Correction | 843 |
| WM04-1 | Tomohiro INADA, Takeshi HATTORI, Kenzo NAKAMURA, Kei OBARA | The Trade-off between SINR and Total Power Consumption in Dual-mode Systems | 848 |
| WM04-2 | Xie Fang, Tian Hui, Zhang Ping, Yang Ning | Stability of Selfish Route Selections in Wireless Ad Hoc Networks | 853 |
| WM04-3 | Koji Yamamoto, Susumu Yoshida | A Delayed Adaptive Retransmission Scheme for False Route Failure in MANET | 858 |
| WM04-4 | Qing CHEN, Zhisheng NIU | A Novel QOS Routing Scheme In Mobile Ad Hoc Network-LAQR | 863 |
| WM04-5 | Zhong Zhou, Zhiqiong Jiang | A scheme for efficient data Dissemination in Adhoc networks | 868 |
| WM11-1 | Zakia Iqbal, Mohammad Asad Rehman Chaudhry, Noor M Sheikh, Tayyaba Sultan | Modulation Index Estimation for CPFSK Signals and Its Application to Timing Synchronization | 874 |
| WM11-2 | Zhan Yafeng, Cao Zhigang, Ma Zhengxin | Interference Cancellation for Non-Orthogonal Space-Time Codes over Time-Selective Fading Channels | 878 |
| WM11-3 | Lingyang Song, Alister G. Burr | Orthogonal digital waveform set for multidimensional signaling and multiuser communications with matched filter receivers | 883 |
| WM12-1 | Zhuquan Zang, Sven Nordholm | Mobility Pattern Based Adaptive Mobile Multicast Algorithm | 888 |
| WM12-2 | Zhong Jianping, Huang Kui, Wu Yichuan, Wu Zhimei | PERFORMANCE ANALYSIS OF HANDOFF MANAGEMENT IN MOBILE IP | 893 |
| WM12-3 | Qinglin Zhao, Li Feng, ZhongCheng Li, Yijun Zhang | A Micro-mobility Scheme based on Explicit Multicast | 898 |
| WM12-4 | Lei Li, Shunji Abe | A Large-scale Mobile Internet Analysis: Experimental Observations on Compact HTML sites | 903 |
| WM12-5 | Toshihiko Yamakami | Design and Performance Evaluation of Roaming Service base on MIP in Heterogeneous Network | 908 |
| WM13-1 | SeongSoo PARK | Performance of Complex Wavelet Packet based Multi-carrier CDMA system with Precoding Technique | 923 |
| WM13-2 | Xiangbin Yu, Xiaodong Zhang, Guangguo Bi | STFBC Method for the ICI Reduction in OFDM Communication System | 927 |
| WM13-3 | YingShan Li, Jun-Seo Lee, Kang-Hee Lee, Heung-Gyoon Ryu | Joint Co-Channel Interference Cancellation and Channel Estimation for Block | 932 |
Precoded Ofdm
Na Yi, Yi HUANG

WM13-4 Virtual Subcarrier Assignment with Multiple Subcarrier Puncturing for Spatial Filtering of OFDM Signals--Application and Performance Evaluation
Yunjian Jia, Shinsuke Hara

WM13-5 Link Adaptation with Adaptive Transmit Diversity for MISO/OFDM Transmission Systems
Yong-Hong Qiu, Ya-Han Pan, Zhi-Gang Cao

WM13-6 Bit-interleaved Coded Modulation for OFDM with Different Orthogonal Bases
Xinying Gao, Haixia Zhang, Dongfeng Yuan

WM14-1 The Dynamic Link failure and Power Aware Reliable Routing in Mobile Ad Hoc Networks
Sang-Hee Han, Sang-Ha Kim

WM14-2 A Zone-based Location Service for Geocasting in Mobile Ad hoc Networks
Zeeshan Hameed Mir, Shoab Ahmed Khan

WM14-3 Multi-hop Wireless Ad-hoc Routing Protocol (MultiWARP)
Steven M. Van Der Werf, Kah-Seng Chung

WM14-4 An Enhanced CSMA/CA Mechanism for Multihop Ad Hoc Networks
Zhongbang Yao, Pinyi Pan, Zhigang Cao