

Table of Contents

ACCESSNETS 2009

Session 1: PON

Hybrid Dynamic Bandwidth and Wavelength Allocation Algorithm to Support Multi-Service Level Profiles in a WDM-EPON	1
<i>Noemí Merayo, Rubén González, Ignacio de Miguel, Tamara Jiménez, Ramón J. Durán, Patricia Fernández, Rubén M. Lorenzo, Juan C. Aguado, and Evaristo J. Abril</i>	
Utility Max-Min Fair Resource Allocation for Diversified Applications in EPON	14
<i>Jingjing Zhang and Nirwan Ansari</i>	

Session 2: WIFI and WiMAX

Fairness Enhancement for 802.11 MAC	25
<i>Caishi Huang, Chin-Tau Lea, and Albert Kai-Sun Wong</i>	
SWIM: A Scheduler for Unsolicited Grant Service (UGS) in IEEE 802.16e Mobile WiMAX Networks.....	40
<i>Chakchai So-In, Raj Jain, and Abdel-Karim Al Tamimi</i>	
Influence of Technical Improvements on the Business Case for a Mobile WiMAX Network	52
<i>Bart Lannoo, Jeffrey De Bruyne, Wout Joseph, Jan Van Ooteghem, Emmeric Tanghe, Didier Colle, Luc Martens, Mario Pickavet, and Piet Demeester</i>	

Session 3: 4G Wireless Networks

Optimizing Energy and Modulation Selection in Multi-Resolution Modulation For Wireless Video Broadcast/Multicast	67
<i>James She, Pin-Han Ho, and Basem Shihada</i>	
System Evaluation of PMI Feedback Schemes for MU-MIMO Pairing ...	80
<i>Yinggang Du, Jianfei Tong, Jing Zhang, and Sheng Liu</i>	

Session 4: FIWI

On Mitigating Packet Reordering in FiWi Networks	89
<i>Shiliang Li, Jianping Wang, Chunming Qiao, and Bei Hua</i>	

Adaptive BU Association and Resource Allocation in Integrated PON-WiMAX Networks	103
<i>Ming Gong, Bin Lin, Pin-Han Ho, and Patrick Hung</i>	

Session 5: Broadband Access Networks

A Future Access Network Architecture for Providing Personalized Context-Aware Services with Sensors	121
<i>Masugi Inoue, Masaaki Ohnishi, Hiroaki Morino, and Tohru Sanefuji</i>	

Session 6: Cognitive Radios

How to Optimally Schedule Cooperative Spectrum Sensing in Cognitive Radio Networks	133
<i>Ke Lang, Yuan Wu, and Danny H.K. Tsang</i>	

Efficient Spectrum Sharing in Cognitive Radio Networks with Implicit Power Control	149
<i>Miao Ma and Danny H.K. Tsang</i>	

Dynamic Spectrum Sharing in Cognitive Radio Femtocell Networks (Invited Paper)	164
<i>Jie Xiang, Yan Zhang, and Tor Skeie</i>	

Session 7: Cross-Layer Design & DSL Technologies

Cross-Layer Routing Method for the SCTP with Multihoming MIPv6	179
<i>Hongbo Shi and Tomoki Hamagami</i>	

Challenges and Solutions in Vectored DSL	192
<i>Raphael Cendrillon, Fang Liming, James Chou, Guozhu Long, and Dong Wei</i>	

IWATA Workshop

Session 1

Analysis and Suppression of MAI in WiMAX Uplink Communication System with Multiple CFOs	204
<i>Xiupei Zhang and Heung-Gyoon Ryu</i>	

Capacity of Two-Way Relay Channel	219
<i>Shengli Zhang, Soung Chang Liew, Hui Wang, and Xiaohui Lin</i>	

Session 2

DP Matching Approach for Streaming Contents Detection Using Traffic Pattern	232
<i>Kazumasa Matsuda, Hidehisa Nakayama, and Nei Kato</i>	
A Linear Precoding Design for Multi-Antenna Multicast Broadcast Services with Limited Feedback	248
<i>Eddy Chiu and Vincent K.N. Lau</i>	
Quantized Beamforming Technique for LTE-Advanced Uplink	264
<i>Young Ju Kim and Xun Li</i>	
Author Index	277