

D29-3 New-Distance-Metric Based MLC in the Presence of Fading
Dongfeng Yuan, Chunyan Gao, *Shandong University, China*, Zhigang Cao, *Tsinghua University, China*

D29-4 Token Enabled Multiple Access (TEMA) for Packet Transmission in High Bit Rate Wireless Local Area Networks
Saeid Akhavan Taheri, *University of New Mexico, USA*, Anna Scaglione, *Cornell University, USA*

D30 CHANNEL EQUALIZATION 2

Wednesday 01 May 2002
15:30 - 17:00

Gotham, 7th Floor

Session Chair: Desmond P. Taylor, *University of Canterbury, New Zealand*

D30-1 On Split FIR Filtering in Blind Equalization
Richard D. Souza, Leonardo S. Resende, Carlos Aurélio F. da Rocha, *UFSC-GPqCom, Brazil*, Maurice G. Bellanger, *CNAM-Electronique, France*

D30-2 Comparison of Two Nonuniformly-Spaced Decision Feedback Equalizers for Sparse Multipath Channels
Frederick K. H. Lee, Peter J. McLane, *Queen's University, Canada*

D30-3 On Combined Equalization and Decoding

Philippa A. Martin, Desmond P. Taylor, *University of Canterbury, New Zealand*

D30-4 Transmit Pre-emphasis for High-Speed Time-Division-Multiplexed Serial-Link Transceiver

Vladimir Stojanovic, George Ginis, Mark A. Horowitz, *Stanford University, USA*

D30-5 Reduced Complexity APP for Turbo Equalization

Dan Raphaeli, Ami Saguy, *Tel Aviv University, Israel*

D31 MULTIPLE ANTENNAS AND DIVERSITY 2

Wednesday 01 May 2002
15:30 - 17:00

Duffy/Columbia, 7th Floor

Session Chair: Naofal Al-Dhahir, *AT&T Labs, USA*

D31-1 Linear Receivers for Multiple-Antenna Communication Channels: An Asymptotic Analysis

Ezio Biglieri, Giorgio Taricco, *Politecnico di Torino, Italy*, Antonia Tulino, *Università del Sannio, Italy*

D31-2 Delay Diversity Codes for Frequency Selective Channels

Dhananjay Gore, Arogyaswami Paulraj, *Stanford University, USA*, Sumeet Sandhu, *Iospan Wireless, USA*

D31-3 Exact Analysis of Optimum Combining in Interference and Noise over a Rayleigh Fading Channel

Ranjan K. Mallik, *Indian Institute of Technology-Delhi, India*, Moe Z. Win, *AT&T Laboratories Research, USA*, Marco Chiani, *University of Bologna, Italy*

D31-4 Coded Error Performance of MIMO Systems in Frequency Selective Nakagami Fading Channels

Jianxia Luo, James R. Zeidler, John G. Proakis, *University of California at San Diego, USA*

D32 TOPICS IN COMMUNICATION THEORY 2

Wednesday 01 May 2002
15:30 - 17:00

Lyceum, 5th Floor

Session Chair: Luc Deneire, *IMEC Leuven, Belgium*

D32-1 The Capacity of an UWB Multiple-Access Communications System
Li Zhao, Alexander M. Haimovich, *New Jersey Institute of Technology, USA*

D32-2 Performance Analysis of Rake Receivers for Ultra-Wideband Communications with PPM and OOK in Multipath Channels

John D. Choi, Wayne E. Stark, *University of Michigan, USA*

D32-3 Exact BER Computation of Generalized Hierarchical PSK Constellations
Pavan K. Vitthaladevuni, Mohamed-Slim Alouini, *University of Minnesota, USA*

D32-4 Composite QAM Sequences with Low PMEPR for Application to Multicarrier Transmission System

Seokhyun Yoon, *New Jersey Institute of Technology, USA*, Hamid Sadjadjpour, *University of California at Santa Cruz, USA*

E. GLOBAL SERVICE PORTABILITY AND INFRASTRUCTURE FOR NEXT-GENERATION VIRTUAL HOME/OFFICE ENVIRONMENTS SYMPOSIUM

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Do van Thanh, *Telenor, Norway*
Moh. Torabi, *Lucent Technologies, USA*
Ikjun Yeom, *KNU, Korea*

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Information Infrastructure and Network Operations and Management

E01 ARCHITECTURE FOR VHE

Monday 29 April 2002
8:50 - 10:20

Imperial, 5th Floor

Session Chair: Seshadri Mohan, *Converse, USA*

Invited Talk - VHE in 3rd Generation Mobile Systems

Olajumoke Ogunbun, *Fujitsu Laboratories of Europe Ltd. (FLE), UK*

E01-1 Applying a Policy-based Framework to Manage Quality of Service Requirements in the Virtual Home Environment
Alvin Yew, Antonio Liotta, George Pavlou, University of Surrey, UK

E01-2 Service Provision and Resource Discovery in the VESPER VHE
José André Moura, José Manuel Oliveira, Eurico Carrapatoso, INESC Porto, Portugal, Renato Roque, Portugal Telecom Inovação, Portugal

E01-3 Extending VHE with the Device Unifying Service
Erik Vanem, Dao Van Tran, Tore E. Jønvik, Do Van Thanh, Telenor R&D, Norway

E02 ENABLERS FOR VHE

Monday 29 April 2002
10:40 - 12:10

Imperial, 5th Floor

Session Chair: Jong-Tae Park, *Kyungpook University, Korea*

E02-1 Next Generation Service Creation Using XML Scripting Languages
John-Luc Bakker, Ravi Jain, Telcordia Technologies, USA

E02-2 A High Level Service Creation Environment for Parlay in an SIP Environment
Roch H. Glitho, Andre Poulin, Ericsson Research Canada, Canada, Ferhat Khendek, Concordia University, Canada

E02-3 Schemes for Updating Mobile Service Agents in Virtual Home Environment
Thierno Bah, Samuel Pierre, École Polytechnique de Montréal, Canada, Roch H. Glitho, Ericsson Research Canada, Canada

E02-4 IPMSA: Integrated Personal Mobility Services Architecture
A. Mingkhwan, M. Merabti, B. Askwith, Liverpool John Moores University, UK

E03 MANAGEMENT IN VHE

Monday 29 April 2002
13:40 - 15:10

Imperial, 5th Floor

Session Chair: Fawzi Daoud, *CRL, Japan*

E03-1 Analysis and Optimization of a Transparent Multicast Mobility Support in Cellular Systems
A. Giovanardi, G. Mazzini, M. Rossi, University of Ferrara, Italy

E03-2 Mobility and Its Impact on the Performance of Hierarchical Multicast Retransmission
Youngkook Kim, Saewoong Bahk, Seoul National University, Korea

E03-3 Architectural Framework for Large-Scale Multicast in Mobile Ad Hoc Networks
Ahmed Helmy, University of Southern California, USA

E03-4 ADS+: An Efficient Binding Update Delivery Scheme Using IP Multicast
Kwan -Wu Chin, Motorola Australia, Australia, Fachmin Folianto, National University of Singapore, Singapore, Mohan Kumar, The University of Texas at Arlington, USA

E04 PERFORMANCE, SECURITY, AND APPLICATIONS IN VHE

Monday 29 April 2002
15:30 - 17:00

Imperial, 5th Floor

Session Chair: Pradeep Ray, *University of New South Wales, Australia*

E04-1 Factors Affecting the Performance of Ad Hoc Networks

Dmitri D. Perkins, Herman D. Hughes, Charles B. Owen, Michigan State University, USA

E04-2 Minimizing Energy Consumption of Secure Wireless Session with QoS Constraints

Ramesh Karri, Piyush Mishra, Polytechnic University, USA

E04-3 A Security Architecture for Application Session Handoff

Erik Skow, Jiejun Kong, Thomas Phan, Fred Cheng, Richard Guy, Rajive Bagrodia, Mario Gerla, Songwu Lu, University of California at Los Angeles, USA

E04-4 Mobility amongst Heterogeneous Networks with AAA Support

M. Cappiello, University of Rome "La Sapienza", Italy, A. Floris, L. Veltri, CoRiTel, Italy

E05 ROAMING SUPPORT FOR VHE

Tuesday 30 April 2002
10:40 - 12:10

Imperial, 5th Floor

Session Chair: Dan Keun Sung, *KAIST, Korea*

E05-1 Global Roaming Management in the Next-Generation Wireless Systems

Ronald Beaubrun, Samuel Pierre, Paola Flocchini, Jean Conan, École Polytechnique de Montréal, Canada

E05-2 Global Mobility Approach with Mobile IP in "All IP" Networks

L. Morand, France Telecom R&D, France, S. Tessier, T-Nova Deutsche Telekom Innovationsgesellschaft mbH, Berkom, Germany

E05-3 A Simple Swap Technique and Enhanced GTT Location Database Management Scheme

Kuo-Hsing Chiang, RMIT University, Australia, Nirmala Shenoy, Rochester Institute of Technology, USA

E05-4 Virtual Bluetooth™ Devices as a Means of Extending Pairing and Bonding in a Bluetooth Network

Jim Beasley, James Fuhring, Jim Jollota, Duke Kamstra, Spencer Stephens, Strix Systems Inc., USA

F. HIGH-SPEED NETWORKS SYMPOSIUM

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Communications Switching and Routing, Computer Communications

F01 HIGH-SPEED SWITCHES AND ROUTERS 1

Monday 29 April 2002
8:50 - 10:20

O'Neill, 4th Floor

Session Chair: Wojciech Kabacinski, *Poznan University of Technology, Poland*

F01-1 Design of Non-Blocking Permutation Generator

Joo-young Lee, Jae-il Jung, Hanyang University, Korea

F01-2 MSN Type-X: Next Generation Internet Backbone Switch / Router Architecture

Naoaki Yamanaka, NTT Innovation Laboratories, Japan, Takashi Kurimoto, Takashi Miyamura, Michihiro Aoki, NTT Network Service Systems Laboratories, Japan

F01-3 A Packet Switch with Bufferless Switch Cards and Partial Distribution of VOQ-state Information to Parallel Arbiters

A. M. M. Leikens, H.- J. Reumerman, J. Ungermann, A. van Wageningen, Philips Research Laboratories, Germany