

Track 3 Services

Organizers:

Carlo Eynard, Enrico Buracchini,
Telecom Italia Labs, Italy

• TS50 Location Based Services and Features

Wednesday, 19 March 2003
(9:30 - 12:30) – Room 206

Session Chair: Enrico Buracchini,
Telecom Italia Labs, Italy

TS50-1: Mobility Patterns in Microcellular Wireless Networks

Suttipong Thajchayapong, Jon M. Peha,
Carnegie Mellon University, USA

TS50-2: Mobile Location Estimator with NLOS Mitigation Using Kalman Filtering

Bao Long Le, Kazi Ahmed, *Asian Institute of Technology*, Thailand, Hiroyuki Tsuji, *Communications Research Laboratory*, Japan

TS50-3: Small-Scale Compensation for WLAN Location Determination Systems

Moustafa Youssef, Ashok Agrawala,
University of Maryland at College Park, USA

TS50-4: Requirements for Localized IP Mobility Management

Theodoros Pagtzis, *University College London*, United Kingdom, Carl Williams, *MCSR/NTT-DoCoMo Research Labs*, USA, Charles Perkins, *Nokia Research Center*, USA, Peter Kirstein, *University College London*, United Kingdom

TS50-5: Location Determination of a Mobile Device Using IEEE 802.11b Access Point Signals

Siddhartha Saha, Kamalika Chaudhuri, Dheeraj Sanghi, Pravin Bhagwat, *Indian Institute of Technology Kanpur*, India

TS50-6: Global Roaming Among Mobile IP Networks Operated by Different Administrative Domains

Akira Idoue, Takeshi Kubo, Hidetoshi Yokota, Toru Hasegawa, Masayoshi Ohashi, *KDDI R&D Laboratories Inc.*, Japan

TS50-7: An Adaptive Location Management Scheme Using The Velocity of Mobile Nodes

Seung-Hee Hwang, *Korea University*, Korea, Youn-Hee Han, *Samsung AIT*, Korea, Bo-Kyung Lee, *Korea Polytechnic University*, Korea, Chong-Sun Hwang, *Korea University*, Korea

• TS51 Security in Mobile Services

Wednesday, 19 March 2003
(14:00 - 15:30) – Room 206

Session Chair: Stefano Faccin,
Nokia, Italy (to be confirmed)

TS51-1: A New and Practical Approach to Secure Mobile Agent Server Development

Mohammad Reza Razzazi, Javad Chamanara, *Amir Kabir University of Technology*, Iran

TS51-2: J2ME End-to-End Security for M-Commerce

Wassim Itani, Ayman I. Kayssi, *American University of Beirut*, Lebanon

TS51-3: An Adaptive Protocol for Efficient and Secure Multicasting in IEEE 802.11 Based Wireless LANs

Sandeep K. S. Gupta, Sriram Cherukuri,
Arizona State University, USA

TS51-4: SPRiNG: Synchronized Random Numbers for Wireless Security

David L. Pepyne, Yu-Chi Ho, Harvard University, USA, Qinghua Zheng, *Xi'an Jiaotong University*, China

• TS52 Mobile Commerce and Multimedia Services

Wednesday, 19 March 2003
(16:00 - 17:30) – Room 206

Session Chair: Chih-Lin I, *ITRI*, Taiwan, R.O.C.

TS52-1: Multiparty Micropayments for Ad hoc Networks

Hitesh Tewari, Donal O'Mahony, *Trinity College*, Ireland

TS52-2: Enabling Mobile Commerce Through Pervasive Communications with Ubiquitous RF Tags

Raj Bridgelall, *Symbol Technologies*, USA

TS52-3: Mobile Multimedia Metropolitan Area Network

Takahiko Yamada, Gaute Lambertsen, Liang Zhang, *Ritsumeikan University*, Japan

• TS 77 Quality Enablers in Mobile Services

Thursday, 20 March 2003
(9:30 - 12:30) – Room 206

Session Chair: Carlo Eynard,
Telecom Italia Labs, Italy

TS77-1: A Comparative Study of Video Transfer over Bluetooth and 802.11 Wireless MAC

Aravind Iyer, U. B. Desai, *Indian Institute of Technology*, India

TS77-2: Context-aware Service Protocol: an Extensible and Configurable Framework for User Context Awareness Services in Pervasive Computing Systems

Jen-yi Pan, *National Chung Cheng University*, Taiwan, Chin-Ping Tan, Wei-Tsong Lee, *Feng-Chia University*, Taiwan

TS77-3: Using Genetic Algorithms to Improve User-perceived QoS in Wireless and Mobile Scenarios

Pedro M. Ruiz, *Agora Systems S.A.*, Spain, Antonio F. Gomez-Skarmeta, *University of Murcia*, Spain

TS77-4: A Novel Resource Reservation Scheme for Handoff in CDMA Wireless Cellular Networks

Jinfang Zhang, Jon W. Mark, Xuemin Shen, *University of Waterloo*, Canada

TS77-5: Minimizing the Cost of Mobility Management: Distance-Based Scheme as a Function of User's Profile

Gaurav Gupta, Rishabh Garg, *Indian Institute of Technology*, India

TS77-6: Cellular IP Performance

George Edwards, Narayan Suryakumar,
University of Denver, USA

TS77-7: Performance and Computational Complexity Optimization in Configurable Video Coding System

David Kwon, Pan Agathoklis, Peter Driessen, *University of Victoria*, Canada

• TS78 New Services Enablers and Features

Thursday, 20 March 2003
(14:00 - 15:30) – Room 206

Session Chair: Ermanno Berruto,
Wind Telecom, Italy

TS78-1: A Middleware Architecture for Streaming Media over IP networks to Mobile Devices

Kevin Curran, Gerard P. Parr, *University of Ulster*, United Kingdom

TS78-2: Approximate Equation of Bit Error Rate in OFDM Systems over Specular Multipath Fading Channels

Fumihito Sasamori, Atsuhiko Yamano, Shiro Handa, *Shinshu University*, Japan, Fumiaki Maehara, Fumio Takahata, *Waseda University*, Japan, Shinjiro Oshita, *Shinshu University*, Japan

TS78-3: Double Feedback Streaming Agent for Real-time Delivery of Media over 3G Wireless Networks

Gene Cheung, Wai-tian Tan, *Hewlett-Packard Company*, USA, Takeshi Yoshimura, *NTT DoCoMo*, Japan

TS78-4: Konark – A Service Discovery and Delivery Protocol for Ad hoc Networks

Sumi Helal, Nitin Desai, Varun Verma, Choonhwa Lee, *University of Florida*, USA

• TS79 Mobile and Wireless IP Services

Thursday, 20 March 2003
(16:00 - 17:30) – Room 206

Session Chair: Chih-Lin I,
ITRI, Taiwan, R.O.C.

TS79-1: A Secure Multicast Support Framework for Mobile IP

R. Shankaran, V. Varadharajan, M. Hitchens, *Macquarie University*, Australia

TS79-2: Experience with the Host Identity Protocol for Secure Host Mobility and Multihoming

Thomas R. Henderson, Jeffrey M. Ahrenholz, Jae H. Kim, *Boeing Phantom Works*, USA

TS79-3: A Light Weight Authentication Scheme for Mobile Wireless Internet Applications

Minghui Shi, Xuemin Shen, Jon W. Mark, *University of Waterloo*, Canada

TS79-4: Macrodiversity in IP based Cellular Networks

Joseph Soma-Reddy, Anthony Acampora, *University of California at Los Angeles*, USA