

3rd COST 290 MANAGEMENT COMMITTEE MEETING  
in conjunction with WWIC 2005

Wi-QoS: Traffic and QoS Management in  
Wireless Multimedia Networks

Hotel Z Palace, XANTHI, GREECE  
May 11 - 13, 2005

Dear COST 290 participant,

it is my pleasure to invite you to the 3rd Management Committee Meeting of COST 290 to be held in conjunction with WWIC 2005 at Hotel Z Palace, Xanthi, Greece.

For logistic information you can visit <http://www.wwic2005.org>

Enclosed please find the tentative agenda of the MC meeting and WWIC program.

Technical presentations of COST 290 meeting will be delivered in a form of accepted WWIC papers.

**Tentative day and time for the MC meeting: Thursday, May 12, 17:00 – 18:00. Other timeslot may be arranged.**

1. Welcome from host
2. Greetings from Chairman
3. Approval of the agenda
4. Update on the Action (delivered by Chairman)
  - Status of the Signatories
  - Budget and reimbursement policy
  - Other MC business
5. Annual technical report discussion
6. AoB

**WWIC 2005 Program**

**Wednesday, May 11, 13:30 – 14:45.**

8:30 - 09:00 Welcome (and coffee)

09:00 - 10:00 Keynote speech by Prof. Ian F. Akyildiz

10:15 - 12:15 Session 1: Mobility Management

*"Impact of Link State Changes and Inaccurate Link State Information on Mobility Support and Resource Reservations"*, Peters Liesbeth, Moerman Ingrid, Dhoedt Bart, Demeester Piet (Ghent University, Belgium)

*"Comparison of Signaling and Packet Forwarding Overhead for HMIP and MIFA"*, Ali Diab, Andreas Mitschele-Thiel, Rene Boringer (Technical University of Ilmenau, Germany)

*"Profile System for Management of Mobility Context Information for Access Network Selection and Transport Service Provision in 4G Networks"*, Ivan Armuelles Voinov, Jorge E. Lopez de Vergara, Tomas Robles Valladares, David Fernandez Cambronero (Technical University of Madrid, Spain)

*"replic8:Location-Aware Data Replication for High Availability in Ubiquitous Environments"*, Evangelos Kotsovinos, Douglas McIlwraith (University of Cambridge, UK)

12:15 - 13:15 Lunch

13:15 - 15:45 Session 2: Transport Protocols and Congestion Control

*"Refined PFTK-Model of TCP Reno Throughput in the Presence of Correlated Losses"*, Roman Dunaytsev, Yevgeni Koucheryavy, Jarmo Harju (Tampere University of Technology, Finland)

*"Examining TCP Parallelization Related Methods for Various Packet Losses"*, Qiang Fu, Jadwiga Indulska (University of Queensland, Australia)

*"The Interaction Between Window Adjustment Strategies and Queue Management Schemes"*, Chi Zhang, Lefteris Mamatras (Florida International University, USA)

*"A Novel TCP Congestion Control (TCP-CC) Algorithm for Future Internet Applications and Services"*, Wang Haiguang, Winston Seah Khoon Guan (Institute for Infocomm Research, Singapore)

*"Performance Evaluation of t-AIMD over Wireless Asynchronous Networks"*, Adrian Lahanas, Vassilis Tsaoussidis (University of Cyprus, Cyprus)

15:45 - 16:15 Coffee break

16:15 - 17:45 Session 3: QoS and Routing

*"Rate Allocation and Buffer Management for Proportional Service Differentiation in Location-Aided Ad Hoc Networks"*, Sivapathalingham Sivavakeesar, George Pavlou (Centre for Communication Systems Research, UK)

*"Multiservice Communications over TDMA/TDD Wireless LANs"*, Francisco M. Delicado, Pedro Cuenca, Luis Orozco-Barbosa (University of Castilla la Mancha, Spain)

*"Interference-Based Routing in Multi-hop Wireless Infrastructures"*, Geert Heijenk, Fei Liu (University of Twente, The Netherlands)

*In the evening, dinner (Traditional tavern: Kipos)*

## **May 12, 2005**

09:00 - 10:00 Keynote speech by M. Smirnov "Autonomic Communication for Network Immunity and Performance"

10:00 - 10:15 Coffee break

10:15 - 12:15 Session 4: Quality of Service

*"A Probabilistic Transmission Slot Selection Scheme for MC-CDMA Systems Using QoS History and Delay Bound"*, Jibum Kim, Kyungho Sohn, Chunga Koh, Youngyong Kim (Yonsei University, South Korea)

*"Evaluation of QoS Provisioning Capabilities of IEEE 802.11E Wireless LANs"*, Frank Roijers, Hans van den Berg, Xiang Fan, Maria Fleuren (TNO Telecom, The Netherlands)

*"Content-Aware Packet-Level Interleaving Method for Video Transmission over Wireless Networks"*, Jeong-Yong Choi, Jitae Shin (Sungkyunkwan University, Republic of Korea)

*"A Performance Model for Admission Control in IEEE 802.16"*, Eunhyun Kwon, Jaiyong Lee, Kyunghun Jung, Shihoon Ryu (Yonsei University, South Korea)

12:15 - 13:15 Lunch

13:15 - 15:15 Session 5: Wireless Multi-hop Networks and Cellular Networks

*"Comparison of Incentive-based Cooperation Strategies for Hybrid Networks"*, Attila Weyland, Thomas Staub, Torsten Braun (University of Bern, Switzerland)

*"Analysis of Decentralized Resource and Service Discovery Mechanisms in Wireless Multi-Hop Networks"*, Jeroen Hoebeke, Ingrid Moerman, Bart Dhoedt, Piet Demeester (Ghent University, Belgium)

*"Location Assisted Fast Vertical Handover for UMTS/WLAN Overlay Networks"*, Tom Van Leeuwen, Ingrid Moerman, Bart Dhoedt, Piet Demeester (INTEC, Belgium)

15:15 - 15:30 Coffee break

15:30 - 17:30 Session 6: Traffic Characterization and Modeling

*"A Methodology of Implementing a Stress Workload Generator for the GTP-U Plane"*, David Navratil, Nikolay Trifonov, Simo Juvaste (University of Joensuu, Finland)

*"Traffic Characteristics Based Performance Analysis Model for Efficient Random Access in OFDMA-PHY System"*, Hyun-Hwa Seo, Byung-Han Ryu, Choong-Ho Cho, Hyong-Woo Lee (Electrical Telecommunication Research Institute, Republic of Korea)

*"Collision Reduction Random Access Using m-Ary Split Algorithm in Wireless Access Network"*, You-Chang Ko, Eui-Seok Hwang, Jeong-Jae Won, Hyong-Woo Lee, Choong-Ho Cho (LG Electronics Inc., Republic of Korea)

*"Simple, Accurate and Computationally Efficient Wireless Channel Modeling Algorithm"*, Dmitri Moltchanov, Yevgeni Koucheryavy, Jarmo Harju (Tampere University of Technology, Finland)

18:00 Social Event, Tour to Avdira Museum

20:00 Old Town Tour and dinner

22:30 Hotel

## **May 13, 2005**

09:00 - 09:15 Coffee

09:15 - 11:15 Session 7: Ad hoc Networks

*"Efficient Multicast Trees with Local Knowledge on Wireless Ad hoc Networks"*, Tansel Kaya, Philip J. Lin, Guevara Noubir, Wein Qian (Northeastern University, USA)

*"Limiting Control Overheads based on Link Stability for Improved Performance in Mobile Ad Hoc Networks"*, Hwee Xian TAN, Winston K.G. Seah (Institute for Infocomm Research, Singapore)

*"Performance Analysis of Secure Multipath Routing Protocols for Mobile Ad Hoc Networks"*, Rosa Mavropodi, Panayiotis Kotzanikolaou, Christos Douligeris (University of Piraeus, Greece)

11:15 - 11:45 Coffee break

11:45 - 13:45 Session 8: IEEE 802.11 and Other Wireless MAC Protocols

*"Packet Error Rate Analysis of IEEE 802.15.4 under IEEE 802.11b Interference"*, Soo Young Shin, Sunghyun Choi, Hong Seong Park, Wook Hyun Kwon (Seoul National University, Republic of Korea)

*"On the Service Differentiation Capabilities of EY-NPMA and 802.11 DCF"*, Orestis Tsigkas, Fotini-NioviPavlidou, Gerasimos Dimitriadis (Aristotle University of Thessaloniki, Greece)

*"Mitigating Interference Between IEEE 802.16 Systems Operating In License-Exempt Mode"*, Omar Ashagi, Sean Murphy, Liam Murphy (University College Dublin, Ireland)

*"ECN Marking for Congestion Control in Multihop Wireless Networks"*, Vasilios A. Siris, Despina Triantafyllidou (Foundation for Research and Technology, Greece)

13:45 - 14:45 Lunch

14:45 - 16:45 Session 9: Energy Efficiency and Resource Optimization

*"Providing Delay Guarantees and Power Saving in IEEE 802.11e Network"*, Gennaro Boggia, Pietro Camarda, Fabio Favia, Luigi Alfredo Grieco, Saverio Mascolo (Politecnico di Bari, Italy)

*"Measuring Transport Protocol Potential for Energy Efficiency"*, S. Kontogiannis, L. Mamas, I. Psaras and V. Tsaoussidis (Demokritos University of Thrace, Greece)

*"STC-based Cooperative Relaying System with Adaptive Power Allocation"*, Jingmei Zhang, Ying Wang, Ping Zhang (Beijing University of Posts & Telecommunications (BUPT), China)

*"Reducing Memory Fragmentation with Performance-Optimized Dynamic Memory Allocators in Network Applications"*, Stylianos Mamagkakis, Christos Mpaloukas, David Atienza, Francky Catthoor, Dimitrios Soudris, Jose Manuel Mendias, Antonios Thanailakis (Democritus University of Thrace, Greece)

16:45 - 17:00 Closing