

## WWIC Final Program

Wednesday, May 28 2008

- 8.30 Registration
- 9.00 Opening
- 9.15 Invited Talk
- Towards Interplanetary Internet, dream or utopia?**  
Dr. Nestor Peccia
- 10.15 Coffee break
- 10.45 Session 1: Performance analysis of wireless systems (COST 290 session)  
Session Chair: Torsten Braun
- A New CAC Policy Based on Trac Characterization in Cellular Networks**  
Natalia Vassileva, Francisco Barcelo-Arroyo
- Cross-Layer Modeling of TCP SACK Performance over Wireless Channels with Completely Reliable ARQ/FEC**  
Dmitri Moltchanov, Roman Dunaytsev, Yevgeni Koucheryavy
- Flow Level Performance Comparison of Packet Scheduling Schemes for UMTS EUL**  
Desislava Dimitrova, J.L. van den Berg, Geert Heijenk, Remco Litjens
- 12.15 Lunch
- 13.30 Session 2: Resource and QoS management (COST 290 session)  
Session Chair: Yevgeni Koucheryavy
- A Hybrid Fault-Tolerant Algorithm for MPLS Networks**  
Maria Hadjiona, Chryssis Georgiou, Maria Papa, Vasos Vassiliou
- Reliable Signalling Transport in Next Generation Networks**  
E. Vazquez, M. Alvarez-Campana, A. Hernandez, J. Vinyes
- An Experimental Investigation of the End-to-End QoS of the Apple Darwin Streaming Server**  
Luca De Cicco, Saverio Mascolo, Vittorio Palmisano
- 15.00 Coffee break
- 15.30 Session 3: Implementation techniques  
Session Chair: Manuel Alvarez-Campana
- An Encryption-Enabled Network Protocol Accelerator**  
Steffen Peter, Mario Zessack, Frank Vater, Goran Panic, Horst Frankenfeldt, Michael Methfessel
- Freemote Emulator: A Lightweight and Visual Java Emulator for WSN**  
Timothée Maret, Raphaël Kummer, Peter Kropf, Jean-Frédéric Wagen
- An Efficient IP Lookup Architecture with Fast Update Using Single-Match TCAMs**  
Jinsoo Kim, Junghwan Kim
- 18.00 Welcome Reception

## Thursday, May 29 2008

- 9.00 Invited Talk
- Multi-Access in Regional Networks**  
Dr. Arto Karila
- 10.00 Coffee break
- 10.30 Session 4: Mobility  
Session Chair: Hans van den Berg
- OMEN - A New Paradigm for Optimal Network Mobility**  
Pedro Vale Pinheiro, Fernando Boavida
- Security and Accounting Enhancements for Roaming in IMS**  
Seppo Heikkinen
- An Experimental Evaluation of a HIP based Network Mobility Scheme**  
Jukka Ylitalo, Jan Melén, Patrik Salmela, Henrik Petander
- 12.00 Lunch
- 13.00 Session 5: Cross-layer design  
Session Chair: Peter Langendörfer
- Service discovery framework for MANETs using cross-layered design**  
Balaji Raghavan, Jarmo Harju, Bilhanan Silverajani
- Cross-layer Designs Architecture for LEO Satellite Ad Hoc Network**  
Zhijiang Chang, Georgi Gaydadjiev
- 14.00 Coffee break
- 14.30 Session 6: Wireless Sensor Networks  
Session Chair: Fernando Boavida
- MARWIS: A Management Architecture for Heterogeneous Wireless Sensor Networks**  
Gerald Wagenknecht, Markus Anwander, Torsten Braun, Thomas Staub, James Matheka, Simon Morgenthaler
- Experiences from Two Sensor Network Deployments | Self-Monitoring and Self-Configuration Keys to Success**  
Niclas Finne, Joakim Eriksson, Adam Dunkels, Thiemo Voigt
- Energy-Efficient Multiple Routing Trees for Aggregate Query Evaluation in Sensor Networks**  
Yuzhen Liu, Weifa Liang
- A Collaborative Localization Scheme from Connectivity in Wireless Sensor Networks**  
Jichun Wang, Liusheng Huang, Xiang Li, He Huang, Jianbo Li
- 18.15 Conference Banquet: A boat cruise on Lake Näsijärvi

## Second ERCIM Workshop on eMobility

Friday, May 30 2008

- 9.00 Invited ERCIM and WWIC joint session: Wireless Sensor/Actuator Networks and Cooperating Objects: Towards the Internet of Smart Things  
Session organized by Jorge Pereira
- [From Autonomous to Cooperative Distributed Control: Towards the Internet of Smart Things](#)  
Jorge Pereira, EU
- [Cooperating Objects: roadmap towards deployment](#)  
Pedro Jose Marron, University of Bonn and Fraunhofer IAIS [CONET Project]
- [Content & Context Aware Routing for Mobile WSNs](#)  
Gianpaolo Cugola, Poli Milano [WASP Project]
- [Cooperating objects in the field of Mobility](#)  
Manuel Serrano, ETRA I+D [EMMA Project]
- [A Middleware Platform Enabling Cooperation in the Object Community](#)  
Markus Taumberger, VTT [POBICOS Project]
- 11.00 Coffee break
- 11.30 ERCIM Workshop, Session 1: Transport Protocols  
Session Chair: Francisco Barcelo-Arroyo
- [DTTP: a Delay-Tolerant Transport Protocol for Space Internetworks \(Full paper\)](#)  
Christos Samaras, Vassilis Tsaoussidis, Nestor Peccia
- [TCP Performance and Packet Aggregation in Wireless Mesh Networks with low quality links \(Abstract\)](#)  
Jonas Karlsson, Andreas Kessler
- [TCP Performance over Wireless Channels with Unreliable ARQ \(Abstract\)](#)  
Dmitri Moltchanov, Roman Dunaytsev, Yevgeni Koucheryav
- 12.25 Lunch
- 13.30 ERCIM Workshop, Session 2: Multi-Hop Networks  
Session Chair: Geert Heijnen
- [Improving Sensor Network Robustness with Multi-Channel Convergecast \(Full paper\)](#)  
Thiemo Voigt, Fredrik Österlind
- [Evaluation of Routing Overlay Solution for a Hybrid Mobile ad hoc Network \(Full paper\)](#)  
Juhani Latvakoski
- [Multi-hop Cellular Networks: Integrated IEEE802.11 Ad hoc and Universal Mobile Telecommunications System \(UMTS\) Networks \(Full paper\)](#)  
Anthony Lo

ATOM: Adaptive Transport over Multipaths in Wireless Mesh Networks  
(Short paper)  
Thomas Staub, Torsten Braun

15.05 Coffee Break

15.25 ERCIM Workshop, Session 3: Services, User Interfaces and Mobility  
Session Chair: Torsten Braun

Invited talk: Speech-based user interaction for mobile devices  
Angel M. Gomez, Victoria Sanchez, Jose A. Gonzalez, Antonio M. Peinado

Hovering Information: Infrastructure-Free Self-Organising User-  
Generated Location-Aware Information Dissemination Service  
(Full paper)  
Alfredo Villalba Castro, Giovanna Di Marzo Serugendo, Dimitri Konstantas

Reducing Handover Latency in Future IP-based Wireless Networks: Fast  
Proxy Mobile IPv6 (Full paper)  
Geert Heijenk, Mortaza Bargh, Julien Laganier, Anand Prasad

Analysis of cell residence time in WLAN under different mobility models  
(Short paper)  
Enrica Zola, Francisco Barcelo-Arroyo

17.00 Concluding remarks