

FOURTH ERCIM WORKSHOP ON EMOBILITY

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Preface

ERCIM, the European Research Consortium for Informatics and Mathematics, aims to foster collaborative work within the European research community and to increase co-operation with European industry. In the ERCIM eMobility workshop, current progress and future developments in the area of eMobility are discussed and the existing gap between theory and application closed. The fourth edition of eMobility workshop was hosted by Luleå University of Technology in Sweden and took place on May 31, 2010.

This volume contains scientific articles accepted for publication by eMobility technical program committee. The accepted contributions discuss several topics of the ERCIM eMobility working group including, testbeds for mobile networks, performance optimization for cellular networks, QoS in vehicular-to-business (V2B) communication, reliability in ad-hoc networks, distributed resource discovery and use, traffic generation models for wireless networks, IMS clients, ICT support for mobility, vehicular ad-hoc networks (VANETs), and mobile video conferencing. The invited talks featured presentations of different European research projects.

At this point, we want to thank all authors of the submitted papers and the members of the international program committee for their contribution to the success of the event and the high quality program. The proceedings are divided into three sections: full papers, short papers and a special session on EU projects. While the short papers present work in progress and ongoing research, the full papers have been carefully selected in a peer review process.

We hope that all workshop delegates enjoy the scientific program and an unforgettable experience of midnight sun and that many scientists, including the current participants, will continue to use the yearly ERCIM eMobility workshop as an event for the exchange of ideas and experiences. The next ERCIM eMobility workshop is scheduled for 2011.

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Part I

Full papers

Testbed for Advanced Mobile Solutions

Maria Apell and David Erman and Adrian Popescu

Paper 1569310737, 12 pages

Scheduling strategies for LTE uplink with flow behaviour analysis

Desislava Dimitrova and Hans van den Berg and Remco Litjens and Geert
Heijenk

Paper 1569315695, 12 pages

An In-Vehicle Quality of Service Message Broker for Vehicle-to-Business Communication

Markus Miche and Tobias Bauer and Marc Brogle and Thomas Michael
Bohnert

Paper 1569315919, 12 pages

Increasing Reliability in Large Scale Ad-hoc Networks

David Fonseca Palma and Marilia Curado

Paper 1569316263, 11 pages

Distributed Resources in Wireless Networks: Discovery and Cooperative Uses

Heli Sarvanko and Marko Höyhtyä and Marcos D Katz and Frank H. P. Fitzek

Paper 1569313333, 10 pages

Practical Traffic Generation Model for Wireless Networks

Sergey Andreev and Alexey Anisimov and Yevgeni Koucheryavy and Andrey Turlikov

Paper 1569314221, 12 pages

IMS-IPTV integration on the client side

Do Van Thanh and Juan Carlos Plaza and Do Van Thuan and Ivar Jørstad
and Tore Jønvik

Paper 1569315613, 10 pages

The Family Portal: a combined IMS-Web application

Do Van Thuan and Ivar Jørstad and Tore Jønvik and Do Van Thanh

Paper 1569316177, 12 pages

Part II

Short papers

Becoming a Sustainable Driver: The Impact of Mobile Feedback Devices

Johannes Tulusan and Marc Brogle and Thorsten Staake and Elgar Fleisch

Paper 1569316459, 6 pages

Towards Scalable Beaconing in VANETs

Emiel Martijn van Eenennaam and Georgios Karagiannis and Geert Heijenk

Paper 1569313423, 6 pages

Automated Deployment of a Wireless Mesh Communication Infrastructure for an On-site Video-conferencing System (OViS)

Thomas Staub and Stefan Ott and Torsten Braun

Paper 1569314217, 3 pages

A Dynamic Geocast Solution to Support Cooperative Adaptive Cruise Control (CACC)

Wouter Klein Wolterink and Georgios Karagiannis and Geert Heijenk

Paper 1569316029, 7 pages

Part III

**Special Session on EU
Projects**

ELVIRE: ELectric Vehicle communication to Infrastructure, Road services and Electricity supply

Marc Brogle

SAP AG (SAP Research), Switzerland

Abstract

ELVIRE

EU-MESH: Enhanced, Ubiquitous, and Dependable Broadband Access using MESH Networks

Vasilios Siris

FORTH-ICS, Greece

Abstract

EU-Mesh

FEDERICA: a Dedicated E-Infrastructure for Network Researchers

Kurt Baumann

SWITCH, Switzerland

Abstract

Frederica

GINSENG: Performance Control in Wireless Sensor Networks

Marilia Curado

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Abstract

GINSENG

SOCRATES: Self-Optimisation and self-ConfiguRATion in wirelEss networkS

Hans van den Berg

University of Twente, The Netherlands

Abstract

Socrates

COST IC0906: WiNeMO - Wireless Networking for Moving Objects

Yevgeni Koucheryavy

Tampere University of Technology, Finland

Abstract

Winemo

Wireless Sensor Network Testbeds (Wisebed)

Torsten Braun, Philipp Hurni, Markus Anwander, Gerald Wagenknecht
University of Bern, Switzerland

Abstract

Wisebed

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