36. Treffen der VDE/ITG-Fachgruppe 5.2.4
Mobilität in IP-basierten Netzen

&

1st GI/ITG KuVS
Fachgespräch on

Simulation and Prototyping Environments for Mobile/Wireless Research

On **July 13th**, beginning at 2 pm, all participants are invited to the UMIC open day in the UMIC building (Mies-van-der-Rohe Str. 15 , 52074 Aachen). Please register for this event by email under gross@umic.rwth-aachen.de .

The ITG 5.2.4 organization meeting will take place on July 13th at 6 pm in the UMIC building.

The social event (on own account) will take place on July 13th at 7:30 pm in the restaurant Magellan (Pontstr. 78, 52062 Aachen, http://www.magellan-ac.de/)

Please register your participation until June 30th by email: gross@umic.rwth-aachen.de

Agenda of Open Workshop on July 14th, 2011

Location   RWTH Aachen University, UMIC Research Center
UMIC building (Mies-van-der-Rohe Str. 15, 52074 Aachen)

More detailed information about the meeting can be found here:

http://www.performance.rwth-aachen.de/events/VDE_SimProt_Workshop

8:30   Registration & Coffee

9:00   Welcome and Introduction

Session 1: Network Emulation & Simulation Scalability

9:15   Approaches for evaluating the application performance of future mobile networks, *Thomas Werthmann, Christian Blankenhorn, Matthias Kaschub, Christian Müller (Universität Stuttgart, IKR)*

9:35   SliceTime - A platform for scalable and accurate network emulation, *Elias Weingärtner (RWTH Aachen)*

9:55   NET - An Integrated Emulation Environment for Mobile Network Research, *Andreas Grau (Universität Stuttgart, IPVS)*

10:15   Performance Prediction of Expanded Parallel Discrete Event Simulations, *Georg Kunz (RWTH Aachen)*

10:45   Coffee break

Session 2: Deployment of Models & Prototyping

11:15 Experiences from Redeploying Simulation-based Code in the Real World, *Georg Wittenburg (INRIA, France)*

11:35 SANDbed: A Flexible Experiment Environment for WSN, *Anton Hergenröder (KIT)*

11:55 User Cooperation: Cross-Layer Prototyping and Measurements, *Patrick Murphy & Chris Hunter (Rice University / Mango Communications)*

12:30 Lunch Break

Session 3: Simulation Models and Tools

14:00 An open source product-oriented LTE network simulator based on ns-3, *Nicola Baldo (CTTC, Spain)*

14:20 From Testbed Measurements to Realistic Simulation: Site-specific Wireless Link Modeling, *Ruben Merz (T-Labs Berlin)*

14:40 The AMoRE Demonstrator for Real-Time System-Level Simulation of LTE-Advanced Radio Networks, *Axel Klein (NSN)*

15:00 Advanced Simulation Methods for Smart Grids, *Antonello Monti (RWTH Aachen)*

15:30 Coffee Break

Session 4: Simulation Models and Tools II

16:00 Optimizing mobility parameters in LTE networks using real drive test measurements, *Ralf Weber (Qualcomm)*

16:20 Radio System Simulations in faster than realtime, *Andreas Lobinger (NSN)*

16:40 IMTAphy: An efficient M.2135 Spatial Channel Model and Link-to-System Mapping Implementation for System-Level Simulations of IMT-Advanced Systems, *Jan Ellenbeck (TU München)*

17:00 Recent EPS Implementations Using ns-3*, Sandra Frei (University of Plymouth)*

Closing

17:30 Conclusion & Wrap-Up

Demos/ Poster

Posters and demos will be presented during coffee and lunch breaks.

- The AMoRE Demonstrator for Real-Time System-Level Simulation of LTE-Advanced Radio Networks, *Axel Klein (NSN)*

- Parallel LTE Simulation, *Georg Kunz / Donald Parruca (RWTH Aachen)*

- User Cooperation: Cross-Layer Prototyping and Measurements, *Patrick Murphy / Chris Hunter (Rice University)*

- Analysis of Energy-Efficient Distributed Slotted Aloha, *Haidi Yue (RWTH Aachen)*

- Analytical Validation of the IMT-A Compliant LTE-Advanced System Level Simulator openWNS, *Maceij Mühleisen (RWTH Aachen)*