

GI/ITG KuVS Fachgespräch Inter-Vehicle Communication

February 20th – 21st 2014, Luxembourg, Luxembourg

Motivation

Over the last few years, significant efforts are being carried out by industry, academia and government agencies to improve driving safety, increase vehicle traffic efficiency and decrease fuel consumption by exploiting vehicular communications and networking technologies. These technologies, which are generally referred to as VANET (Vehicular Ad Hoc Networks), include Vehicle-to-Infrastructure (V2I), Vehicle-to-Vehicle (V2V) communications and can be based on short- and medium-range communications as well as on cellular systems.

Goals

The goal of this seminar is to give an interdisciplinary overview on recent advances and early results in the area of vehicular inter-networking technologies and related applications. This seminar will include and solicit contributions addressing technical and research issues, development projects, standardization activities, and field trials on VANET technologies and applications. The objective is to discuss recent advancements in this highly active research area, to highlight interdisciplinary challenges in the development of Intelligent Transport Systems (ITS), and to share lessons learned from field trial experiences.

Scope of Contributions: Authors are invited to submit extended abstracts (2-4 pages) presenting new research results related to the theory or practice of vehicular communications and applications.

Manuscripts formatted according to IEEE conference layout should be submitted as PDF documents. Accepted contributions will be published in a technical report (thus, the copyright will remain with the authors).

Topics of Interest

- Communication protocol design and network management
- Channel modeling, modulation and coding
- Congestion control and scalability issues
- Medium access control protocols
- Multi-channel organization and operation
- Traffic management and flow optimization techniques
- Vehicle or traffic-related smartphone apps
- Safety and non-safety applications
- Vehicle-to-vehicle/roadside/Internet communication
- Simulation frameworks
- Security issues and countermeasures, and privacy issues
- Telematics applications
- Electric vehicle applications
- Networking to reduce energy consumption
- Wireless in-car networks
- Systems that reduce driver distraction
- Real-world testbeds

Important Dates

- Extended Abstract Deadline:
January 20th 2014
- Notification of acceptance:
February 1st 2014
- Fachgespräch:
February 20th-21st 2014

Organizing Committee

- Markus Forster (University of Luxembourg, Luxembourg)
- Thomas Engel (University of Luxembourg, Luxembourg)
- Raphael Frank (University of Luxembourg, Luxembourg)
- Christoph Sommer (University of Innsbruck, Austria)
- Frank Kargl (Ulm University, Germany)

For more information please consult our web-site www.vehicularlab.uni.lu.