

International Conference on Wireless Communications and Mobile Computing (IWCMC 2010)

Vehicular Technology Symposium

Call for Papers

Aim and Scope

With the increasing number of vehicles and rapid development of wireless technologies, vehicular communication networks and systems (VCNS) and intelligent transportation systems (ITS) are attracting more and more attention. The aim of VCNS and ITS is to improve traffic safety, protect environment by reducing traffic congestion and fuel consumption, and enable a plethora of new applications such as mobile infotainment. To facilitate both safety and non-safety applications, there is a necessity to integrate communications and computing technologies into vehicular and transportation systems. These result in various types of cooperative vehicular communications and networks: intra-vehicle, vehicle-to-infrastructure (V2I), vehicle-to-roadside (V2R), and vehicle-to-vehicle (V2V) or mobile-to-mobile (M2M) communications.

In order for vehicular communication and networking technologies to be widely deployed, many research challenges need to be addressed. This workshop aims at bringing together the researchers and engineers from both the academia and industry to present cutting-edge research achievements covering all aspects of vehicular communication technologies. We are seeking papers that describe high-quality, original, and unpublished contributions.

Topics of Interest

Topics of interest include, but are not limited to:

- Antenna technologies
- Physical layer and RF Level technologies
- Channel measurement, modelling, and simulation
- Radio resource management and QoS support
- Availability and scalability issues for vehicular communications
- Network architecture for vehicular communication networks (e.g. WAVE, C2CC, ...)
- Intra-vehicle, V2I, V2R, and V2V communication protocols
- MAC, routing, congestion control, multicast, mobility management, etc.
- Cross-layer design and optimization for vehicular communication networks
- Interoperability and Gateways to Internet or 3G networks
- Sensors integration and data collections
- Security and privacy technologies
- Safety and non-safety applications and services
- Cooperative vehicular communications
- Content distribution
- Mobility and vehicle traffic models
- Simulation framework and performance evaluation techniques
- Real-time experimental systems and testbeds for vehicular communications
- Standardization evolution

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