JCN SPECIAL ISSUE ON
TELEMATICS COMMUNICATIONS AND VEHICULAR
NETWORKING

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Wireless communication for intelligent transportation systems (ITSs) is a promising technology to improve driving safety, reduce traffic congestion and support information services in vehicles.

A new era of vehicular technology that includes vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communications is approaching. During recent ITS development, transportation telematics techniques have exhibited much progress, e.g., interaction between automobiles and the infrastructure for delivering services such as road-side assistance, automatic crash notification, concierge assistance and vehicle condition reports.

This special issue aims to cover a widening range of research topics, which are related to vehicular networking applications, services, and systems. Beyond systems that are integrated into vehicles, this special issue includes, e.g., vehicle- or traffic-related smartphone applications. Areas of interest include, but are not limited to:

- Channel modeling, modulation and coding
- Congestion control and scalability issues
- VANET medium access, routing control protocols
- VANET protocol design, architecture, and network management
- Vehicular safety and non-safety applications
- Vehicle-to-roadside/vehicle/infrastructure communication
- VANET simulation frameworks
- Field operational testing
- Security issues and countermeasures, and privacy issues
- Telematics applications
- Electric vehicle applications
- Networking to reduce energy consumption and traffic accidents
- Wireless in-car networks
- "Reduced functionalities" DSRC systems for pedestrians, road workers, etc.
- Vehicle or traffic-related smartphone apps
- Vehicular data-collection, organization and dissemination methods
- Traffic and flow modeling and analysis
- Remote service provisioning and over-the-air upgrading technology
- Design with multiple wireless data links (802.11p, WiMAX, WiFi, cell phone, GPS)
- Mobility or handover technology
- New ITS/Telematics applications
- Safety and driver-assistance applications
- Road traffic congestion control by cooperative data analysis and warning propagation
- Reduction of fuel consumption and greenhouse gas emission
- Deployment strategies and predictions
- Standardization and development of VANETs: efforts and problems on 802.11p WAVE, 802.11s MESH, DSRC

Continuing JCN’s tradition of fast turnaround together with full peer reviews, a tentative schedule is set as follows:

- **August 30, 2012**: Electronic manuscript (.ps or .pdf) submission to JCN website [An earlier note to editors with intent to submit will be appreciated.]
- **November 30, 2012**: Reviews returned to authors. Papers will be either accepted, rejected, or returned to the authors with requests for changes
- **January 30, 2013**: Final revised manuscript due
- **April 15, 2013**: Special issue published

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