



Call for Papers ACM/Springer Mobile Networks & Applications (MONET)

SPECIAL ISSUE ON

Dependable and Real-time Vehicular Communication for Intelligent Transportation Systems (ITS)

<http://www.springer.com/engineering/signals/journal/11036>

Overview

Transportation systems begin to receive widespread attention from scientific community and emerged towards Intelligent Transportation Systems (ITS), where there is closed loop interaction between vehicles/drivers and the transportation infrastructure empowered by cooperative V2X communications. While some of the enabling technologies are entering their mature phase, e.g., traffic flow sensors and IEEE 802.11p, there is still the need of a complete integrated solution that can take the most benefits from a real-time communication and analysis of the data gathered and appropriate reaction on the transportation system. Furthermore, safety, efficiency and comfort ITS applications exhibit tight latency and throughput requirements, for example safety critical services require guaranteed maximum latencies lower than 100ms while most infotainment applications require QoS support and high data rates. Besides latency and throughput, safety applications also require deterministic communications (real-time) and vehicles involved in accident should be granted timely access to the wireless medium to transmit warning messages, even in congested road scenarios. Therefore, the purpose of this special issue is to publish high-quality research, expecting both from academic and industrial stakeholders, and serves as an outlet for disseminating innovative solutions towards meeting the expectation of ITS and mainly real-time dependable communication. Original, high quality contributions that are not yet published, submitted or not currently under review by other journals or peer-reviewed conferences are sought.

Topics

Topics of interest include, but are not limited to, the following scope:

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| <ul style="list-style-type: none">- New paradigms for dependable and real-time vehicular communication- Real-time medium access for vehicular communication- Real-time sensing for autonomous vehicles- Real-time automatic incident detection and recovery- Real-time safety aspects of smart mobility- Real-time parking and monitoring systems | <ul style="list-style-type: none">- Real-time and Dependable data distribution platforms- Real-time and dynamic prediction of traffic flows- Real-time public transport prioritization- Real-time prototype development and measurements- Real-time M2M communication in the scope of ITS- New paradigms for smart mobility- Field trials/Testbed implementations |
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Important Dates

- **Manuscript submission deadline: 10 June 2016**
- Notification of acceptance: 10 September 2016
- Submission of final revised paper: 5 October 2016
- Publication of special issue (tentative): 4th Quarter 2016

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>. A copy of the manuscript should also be emailed to the following email: alam@av.it.pt with subject field containing “**Dependable and Real-time Vehicular Communication for ITS**”. In addition, authors whose selected papers have been accepted and presented at the **EAI International Conference on Future Intelligent Vehicular Technologies, Porto, Portugal 2016** (<http://future5v.org/>), are invited to submit an extended and revised version of their papers to this special issue. The selected submitted papers must have at least 30% difference from the conference paper.

Guest Editors:

Dr. Muhammad Alam Instituto de Telecomunicações, University of Aveiro, Portugal.

Prof. Elad Schiller Department of Computer Science and Engineering, Chalmers University of Technology, Sweden.

Prof. Lei Shu Guangdong University of Petrochemical Technology, China.

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