



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

SPECIAL ISSUE ON

Advances on Vehicular Communication Systems

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

Overview:

The joint efforts of academia and industry in the past years have led to the introduction of new on board applications and services. In addition, governments and standardization organizations have agreed upon a common set of standards (DSRC) specific to vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communications. Combined with the cellular network infrastructure, they pave the way for a plethora of solutions empowered by vehicular communications. Among these solutions we have emergency alerts, autonomous vehicles, infotainment, comfort services, cooperative road sensing and collaborative applications. Also, the integration between smartphones and vehicles has been addressed by many researchers, with a wide range of applications already available, and many more being expected.

In terms of communication systems, mobility effects and channel conditions heavily affect the signal quality, introducing path-loss, fading, received power fluctuations. Under such conditions, several issues remain open including message dissemination in congested environments, Quality of Service (QoS), efficient and adaptive routing, MAC layer enhancements, mobility prediction, efficient handovers, etc.

This special issue is seeking for high quality contributions, soliciting high level technical papers addressing the main research challenges in the vehicular networking area. The possible contributions should consist in original theoretical or practical analyses, never published elsewhere, and validated by simulations or real testbeds.

Topics

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

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| <ul style="list-style-type: none">- Wireless vehicular networking- Congestion and admission control in dense vehicular networks- Content distribution in wireless vehicular environments- Smartphone/vehicle integration- Service oriented architectures, service portability, P2P- Cooperative sensing of road conditions- Network and system architectures for mobile vehicular computing | <ul style="list-style-type: none">- DSRC/WAVE communications. Alternatives to DSRC.- Network protocols and algorithms, including clustering, routing, etc.- Cross-layer protocol design- Statistical analysis, prediction and management of vehicular mobility- Multimedia communications in vehicular scenarios- Models, simulators and tools for vehicular environments |
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Important Dates:

- **Manuscript submission deadline: July 31, 2014**
- Notification of acceptance: October 30, 2014
- Submission of final revised paper: January 10, 2015
- Publication of special issue (tentative): 3rd Quarter 2015

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: calafate@disca.upv.es

Authors need to register to submit their papers.

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