EURASIP Journal on Wireless Communications and Networking

Special Issue on
New Technologies and Research Trends for Vehicular Wireless Communications

This special issue aims to provide readers with a focused set of peer-reviewed articles to reflect the latest research results on new technologies and research trends for Vehicular Wireless Communications (VMC). More specifically, this special issue aims at fostering innovative and significant research on a number of related topics, e.g. electromagnetic field distribution, broadband wireless communication system/receiver design, channel measurement/modeling and advanced networks for VMC. In this issue, we would like to encourage not only results and insight obtained from numerical simulations and theoretical analysis, but also those obtained from practical implementations. The papers will be peer reviewed by at least three independent reviewers and will be selected on basis of their quality and relevance to the theme of this special issue.

The development of Vehicular Wireless Communications (VMC) brings the promise of improved railway/road safety and traffic efficiency while providing comfortable riding/driving environments. Recent advances of wireless communications supporting Vehicle-to-Vehicle (V2V) and Vehicle-to-Wayside (V2W) communications have become a cornerstone of VMC, which is requiring vital efforts from both the industry and the academic. So far, simple and basic solutions have been adopted for V2V and V2W so far. However, studies on related channel modeling and bandwidth communication standards/technologies for VMC have posed various new challenges. This special issue intends to introduce channel modeling of confined space and advanced bandwidth communication technologies on various aspects related to VMC, and to highlight the state-of-art research on VMC.
Potential topics include, but are not limited to:

- Antenna, propagation, and field distribution for VWC
- Ultra wideband (UWB) radio and positioning for both vehicles and high-speed trains
- Broadband wireless communication (LTE D2D/5G Testing, vehicle communication/DSRC) for VWC
- Channel measurement and channel modeling for VWC
- Wideband receiver design for VWC
- Evolutionary algorithms for signal detection and channel estimation of VWC
- Low-latency and high-reliability wireless communication technology research
- Cognitive radio in vehicle communications applications
- 4G Testbed, protocol conformance testing for VWC
- Distributed-antenna network, Mesh network, Cooperative network for VVC
- Practical standard development issues for VWC
- Case studies of VWC application

Submission Instructions:

Before submission authors should carefully read over the Instructions for Authors, which are located at http://jwcn.eurasipjournals.com/authors/instructions. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at http://jwcn.eurasipjournals.com/manuscript according to the submission schedule. They should choose the correct Special Issue in the “sections” box upon submitting. In addition, they should specify the manuscript as a submission to the “Special Issue on New Technologies and Research Trends for Vehicular Wireless Communications” in the cover letter. All submissions will undergo initial screening by the guest editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

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Submission Schedule
Manuscripts due: December 31, 2013