CALL FOR PAPERS

International Journal of Vehicle Information and Communication Systems (IJVICS)

Special Issue on

Inter-Vehicle Communication and Intelligent Transportation Systems

In recent years, increasing attention has been paid to inter-vehicle communication (IVC) from both industry and academic communities, due to its close relationship to the development of management and control strategies of transportation systems, vehicular technologies, and information and communication technologies. With ubiquitous existence of wireless communication devices and the allocation of a block of spectrum in the 5.850 to 5.925 GHz band for Dedicated Short Range Communications (DSRC) by US FCC, IVC technologies can be well applied to develop Intelligent Transportation Systems (ITS) technologies to improve drivers' safety and comfort on the road and the productivity of the whole transportation system. In particular, Advanced Traveler Information Systems (ATIS) based on IVC are distributed in nature and hold many advantages over traditional ATIS in terms of collecting and disseminating critical traffic information.

Due to complicated interactions between transportation systems and communication systems, many fundamental questions related to IVC remain to be answered. For examples, is an IVC-based ATIS feasible for improving the safety and productivity of transportation systems? What are the proper requirements on communication units in terms of transmission range, communication bandwidth, and storage size? What are the proper mechanisms for detecting, storing, processing, and routing traffic information in such a distributed system? What influences can the type of applications and traffic situations have on the performance and design of communication hardware and software?

This special issue is aimed to be a discussion platform of the interplay between Inter-Vehicle Communication and Intelligent Transportation Systems. We hope that, through these dedicated efforts, IVC technologies would be more readily applied to solve real-world transportation problems.

Subject Coverage. Authors are encouraged to submit manuscripts that studying topics including but not limited to:
- IVC as mobile ad-hoc networks
- IVC communication hardware design
- Information routing through IVC
- IVC-based sensor network
- Integration of IVC and vehicle-to-infrastructure communication
- Traffic information detection, process, management, and dissemination
- IVC-based driving assistance and guidance
- Design and performance analysis of IVC systems
- Information privacy and security in IVC systems
- IVC regulation and policy

We welcome technical papers of theoretical and empirical studies, as well as survey and tutorial articles.

Important Dates:

Manuscript due: *September 30, 2006*

Notification: *November 30, 2006*

Final manuscript due: *January 31, 2007*

Publication date: 3rd *quarter of 2007*

Submission Guidelines. Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. All papers are refereed through a peer review process. A guide for authors, sample copies and other relevant information for

submitting papers are available on the *Papers Submission* section under *Author Guidelines* (http://www.inderscience.com/mapper.php?id=30).

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