



ACADEMY PUBLISHER
<http://www.academypublisher.com/>

CALL FOR PAPERS
Journal of Communications (JCM, ISSN 1796-2021)
Special Issue on
Challenges in Future Vehicular AD Hoc Networks

Vehicular Ad Hoc Networks (VANETS) are non-infrastructure based networks that do not rely on a central administration for communication between vehicles. In a Vehicular Ad Hoc Network, the overlapping transmission range of each vehicle ensures a unified and common channel for communication between the vehicles. The flexibility of VANETS widely opens the door to myriad applications that contribute to the safety and comfort of the vehicle's passengers. Unfortunately, this versatility does not come for free: there is a large number of computer communication challenges that are awaiting researches and engineers that are serious about the implementations and deployments of VANETS.

The goal of this special issue is to *explore developments and current/future challenges in the area of vehicular ad-hoc networks*. Enabled by short- to medium-range communication systems (vehicle-vehicle or vehicle-roadside), the vision of vehicular networks includes real-time and safety applications, sharing the wireless channel with mobile applications from a large, decentralized array of commercial service providers. Vehicular safety applications include collision and other safety warnings. Non-safety applications include real-time traffic congestion and routing information, high-speed tolling, mobile infotainment, and many others. Creating high-performance, highly scalable, robust and secure vehicular networking technologies presents an extraordinary challenge to the wireless research community.

Topics include (but are not limited to) the following:

- VANET Architecture
- Protocol design (low-power, multi-channel)
- Routing and MAC protocols
- Vehicle-to-Vehicle and Vehicle-to-Roadside
- Channel and traffic Modeling
- Security and privacy
- Collaboration and information sharing
- Cross-layer optimization techniques
- Safety and commercial applications
- Scalability
- Mobility management and handoffs
- Interoperability with other networks such as Sensor Networks, MANETs, Cellular networks, etc.
- Tracking and data delivery
- Service Discovery techniques

Prospective authors should follow the submission instructions (see below) according to the following timetable:

Manuscript Submission Due	November 15, 2008
Acceptance Notification	January 15, 2009
Final Manuscript Due	February 1, 2009
Tentative Publication Date	May 2009

Submitted papers must be original and not have been previously published or currently submitted for journal publication elsewhere. Papers, which have appeared previously in proceedings of conferences, could be submitted to this special issue *if they are substantially revised or improved from their earlier versions*. All submitted papers will be refereed on the basis of technical quality, significance, novelty, and clarity. The full paper should ideally not exceed 14 single-space pages of A4, including illustrations and tables. Submissions must be directly sent in PDF format via email to Guest Editors: mw11@aub.edu.lb and hs33@aub.edu.lb. Please identify your submission in the email subject line "Submission - JCM Special Issue on VANETS". Complete guidelines for prospective authors can be found on-line at <http://www.academypublisher.com/forauthors.html>. Each submission should include, in addition to the paper, two letters: 1) a cover letter that clearly state the title of the paper, the names, addresses and affiliations of the all authors, and the corresponding author; and 2) a letter that includes the names, titles, affiliations, contact information of 2 to 4 potential reviewers. Paper submissions are accepted only in PDF.

Guest Editors

Mohamed K. Wafwa, Assistant Professor, Computer Science Department, American University of Beirut, Lebanon
Haidar Safa, Assistant Professor, Computer Science Department, American University of Beirut, Lebanon