



CALL FOR PAPERS  
**VANET 2004**



**First ACM Workshop on  
Vehicular Ad Hoc Networks (VANET)**

*http://www.path.berkeley.edu/vanet/*

in conjunction with ACM MobiCom 2004

October 1, 2004, Loews Philadelphia Hotel, Philadelphia, PA, USA

**Important Dates**

*Submission deadline:*  
May 24, 2004

*Notification:*  
July 16, 2004

*Camera ready:*  
August 6, 2004

**General Co-Chairs**

Ken Laberteaux  
Toyota Technical Center,  
USA, Inc.

Raja Sengupta  
Univ. of California, Berkeley

**Program Co-Chairs**

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Univ. of California, Davis

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DaimlerChrysler Research and  
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The goal of this workshop is to explore the development of wireless vehicular ad hoc networking (VANET) technologies. The vision is safety and commercial applications enabled by short to medium range communication systems and/or networks (vehicle-vehicle or vehicle-roadside). Such technology should provide priority for time-critical safety messages and meet the QOS requirements of other mobile e-commerce or multimedia applications.

Authors are invited to submit papers presenting new research related to the theory or practice of VANET. All submissions must describe original research, not published or currently under review for another conference or journal. Areas of interest include, but are not limited to:

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|--|-----------------------|
| Safety and commercial applications                       | Network management    |
| Protocol design (including low-power, cross-layer, etc.) | Power control         |
| Security and privacy                                     | Modulation and coding |
| Multi-channel organization/operation                     | Channel modeling      |

The Federal Communications Commission allocated 75 MHz of spectrum for Dedicated Short Range Communications (vehicle-vehicle or vehicle-roadside) in October 1999. With the support of ASTM and IEEE, the first DSRC standard is quickly moving towards completion. The resulting DSRC system is expected to be the first wide-scale VANET in North America. Industry and government organizations are also supporting research of DSRC and future vehicular communication technologies. This workshop will include an industry/government panel to this effect.

Creating high-performance, highly scalable, and secure VANET technologies presents an extraordinary challenge to the wireless research community. Yet, certain limitations commonly assumed in ad hoc networks are mitigated in VANET. For example, VANET may marshal ample computational and power resources. Mobility patterns are constrained by road paths and driving speed restrictions. As opposed to sensor networks, VANET represents high resource/performance wireless technology.

VANET 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.

**Submission Instructions**

All paper submissions will be handled electronically. Authors should prepare a Portable Document Format (PDF) version of their paper. Papers must meet the following restrictions: No longer than 10 pages (single or double column); in font no smaller than 11 points; must fit properly on US Letter-sized paper (8.5 inch x 11 inch) with reasonable margins.

Instructions for electronic submission of papers will be posted at *http://www.path.berkeley.edu/vanet/*. Please email all questions to *vanet@path.berkeley.edu*.