

2nd VEHICLE-TO-VEHICLE COMMUNICATIONS WORKSHOP V2VCOM 2006

July 21, 2006, San Jose, CA, USA

9:00am – 9:10am Opening and welcome:

Onur Altintas and Wai Chen, *Workshop Chairs*

9:10am – 9:35am Keynote Speech:

Vehicle Communications in Advanced Telecommunication Environment

Tadao Saito, *Professor Emeritus, University of Tokyo and
CTO and Chief Scientist, Toyota InfoTechnology Center, Japan*

9:35am – 12noon

Session 1: V2VCOM Applications, Networking Architecture and Technologies

Strategies for Context-Adaptive Message Dissemination in Vehicular Ad Hoc Networks

Stephan Eichler*, Christoph Schroth*, Timo Kosch†, and Markus Strassberger†

**Institute of Communication Networks, Technische Universitat Munchen, Germany*

†*BMW Group Research and Technology, Germany*

Optimized Inter-Vehicle Communications Using NEMO and MANET (Invited Paper)

Jean Lorchat and Keisuke Uehara, *Keio University, Japan*

10:15am – 10:40am Break

A New Paradigm of V2V Communication Services Using Nomadic Agent (Invited Paper)

Tomoyuki Yashiro, *Chiba Institute of Technology, Japan*

A Data Intensive Reputation Management Scheme for Vehicular Ad Hoc Networks

Anand Patwardhan, Anupam Joshi, Tim Finin and Yelena Yesha

University of Maryland Baltimore County, USA

Survey of Routing Protocols for Inter-Vehicle Communications

Jasmine Chennikara-Varghese*, Wai Chen*, Onur Altintas† and Shengwei Cai†

**Telcordia Technologies, Inc. USA*

†*Toyota InfoTechnology Center, Co., Ltd., Japan*

**A Method for Sharing Traffic Jam Information Using Inter-Vehicle Communication
(Invited Paper)**

Naoki Shibata*, Takashi Terauchi†, Tomoya Kitani†, Keiichi Yasumoto†, Minoru Ito† and Teruo Higashino‡

**Shiga University, Japan*

†*Nara Institute of Science and Technology, Japan*

‡*Osaka University, Japan*

12noon – 1:15pm Lunch

1:15pm – 1:55pm Session 1 (cont'd)

Dynamic Local Peer Group Organizations for Vehicle Communications

Wai Chen^{*}, Jasmine Chennikara-Varghese^{*}, John Lee^{*}, Shengwei Cai[†] and Toshiro Hikita[‡]

^{*}*Telcordia Technologies, Inc., USA*

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FleaNet: A Virtual Market Place on Vehicular Networks (Invited Paper)

Uichin Lee, Joon-Sang Park, Eyal Amir and Mario Gerla,

University of California Los Angeles, USA

1:55pm – 2:20pm Invited Talk:

Studies on Traffic Effects of V2V Communication

Umit Ozguner, *The Ohio State University, USA*

2:20pm – 5:15pm

Session 2: V2VCOM Performance Evaluation, MAC and Physical Layer Technologies

GrooveNet: A Hybrid Simulator for Vehicle-to-Vehicle Networks (Invited Paper)

Rahul Mangharam^{*}, Daniel Weller^{*}, Raj Rajkumar^{*}, Priyantha Mudalige[†] and Fan Bai[†]

^{*}*Carnegie Mellon University, USA*

[†]*General Motors Research and Development, USA*

Location-based Flooding Techniques for Vehicular Emergency Messaging

Sangho Oh^{*}, Jaewon Kang[†] and Marco Gruteser^{*}

^{*}*WINLAB, Rutgers University, USA*

[†]*DATAMAN Lab, Rutgers University, USA*

3:00pm – 3:30pm Break

Channel Modeling for V2V Communications (Invited Paper)

David W. Matolak, Indranil Sen and Wenhui Xiong, *Ohio University, USA*

Automesh: Flexible Simulation Framework for Vehicular Communication

Rama Vuyyuru^{*}, Kentaro Oguchi^{*}, Clay Collier[†] and Ed Koch[†]

^{*}*Toyota Info Technology Center, U.S.A., Inc., USA*

[†]*Akuacom, Inc., USA*

Dynamic Multiband Antenna System for High Capacity Data Communications to Mobile Platforms (Invited Paper)

Carsten Metz, *Bell Labs/Lucent Technologies, USA*

Rapid Dual Channel Frequency and Frame Synchronizer for OFDM Packet Transmission

Hyun Seo Oh, Jonghoon Ryu and Oscar Y. Takeshita, *The Ohio State University, USA*

Introduction and Preliminary Experimental Results of Wireless Access for Vehicular Environments (WAVE) Systems (Invited Paper)

Weidong Xiang, Paul Richardson and Jinhua Guo, *University of Michigan, USA*