

First International Workshop on Intelligent Vehicular Networks (*InVeNET* 2009)

Message from the Workshop Chairs

We welcome everyone to the First International Workshop on Intelligent Vehicular Networks, held on October 12, 2009, in Macau, China, in conjunction with IEEE MASS 2009.

This new workshop has for stated goal to be a high-profile workshop that brings together state-of-the-art contributions related to the design, specification, and implementation of architectures and protocols for current and future applications of **Intelligent Vehicular Networks**. We aim to provide an environment conducive of cross-fertilization between researchers from many areas, all relevant, in one way or another to the confluence of Intelligent Transportation Systems (ITS) and Vehicular Ad hoc Networks (VANET). By creative a relaxed, collegial atmosphere, this workshop will foster a sustainable dialogue between researchers from industry and academia on the state of the art in both ITS and VANET.

Although it is a new workshop, we received no fewer than 19 submissions, from three continents, making for a truly international competition. Each paper was reviewed by at least four referees. As a result of a careful selection process, six papers were selected for presentation at the workshop; the acceptance rate was about 31%. The program covers all sorts of topics related to the theory or practice of Intelligent Vehicular Networks.

The program committee consisted of 16 experts. We thank our TPC members for their outstanding work in reviewing the submissions, as well as IEEE MASS 2009 committees for support of running this new workshop.

We are looking forward to a very successful workshop and to the pleasure of welcoming you in Macau.

Stephan Olariu
Jie Wu
Workshop Co-Chairs

InVeNET 2009

Workshop Organization

Workshop General Chairs

Prof. Stephan Olariu, *Old Dominion University, USA*
Prof. Jie Wu, *Florida Atlantic University, USA*

Program Co-Chairs

Liviu Iftode, *Rutgers University, USA*
Pedro M. Ruiz, *University of Murcia, Murcia, Spain*

Steering Committee

Michael Fontaine, *VTRC and University of Virginia, USA*
Ivan Stojmenovic, *University of Ottawa, Canada*
Michele Weigle, *old Dominion University, USA*

Publicity Co-Chairs

Luciano Bononi, *University of Bologna, Italy*
Gongjun Yan, *Old Dominion University, USA*
Yongbin Yu, *University of Electronic Science and Technology of China*

Technical Program Committee (partial list)

Arnaud Casteigts, *University of Ottawa, Canada*
Carryl Baldwin, *George Mason University, USA*
Cetin Mecit, *Old Dominion University, USA*
Christian Lochert, *Heinrich Heine University, Germany*
Dimitrie Popescu, *Old Dominion University, USA*
Gongjun Yan, *Old Dominion University, USA*
Jianhua Guo, *University of Michigan-Dearborn, USA*
Juan A. Sánchez, *Univ. of Murcia, Spain*
Lila Boukhatem, *LRI Lab. Univ. Paris-Sud/CNRS, France*
Long Le, *University of North Carolina at Chapel Hill, USA*
Mahmoud Abuelela, *Old Dominion University, USA*
Marco Fiore, *Politecnico di Torino, Italy*
Martin Treiber, *Dresden University of Technology, Germany*
Matthias Gerlach, *ASCT. Automotive Services and Communication Technologies, Germany*
Mihaela Cardei, *Florida Atlantic University, USA*
Samy El-Tawab, *Old Dominion University, USA*
Weidong Xiang, *University of Michigan-Dearborn, USA*

INVENET 2009

Workshop Program

Session 1: Routing and Propagation

Two Ray or not Two Ray this is the price to pay

Eugenio Giordano (University of California at Los Angeles)

Raphael Frank (University of Luxembourg)

Abhishek Ghosh (University of California at Los Angeles)

Giovanni Pau (University of California Los Angeles)

Mario Gerla (University of California Los Angeles)

Ticket-based Reliable Routing in VANET

Gongjun Yan (Old Dominion University)

Danda Rawat (Old Dominion University)

Samy El-Tawab (Old Dominion University)

Session 2: Power Control and Traffic Control

Analysis of Aggregated Power Level and Rate-Power Control Designs for Status Update Messages in VANETs

Ching-Ling Huang (University of California at Berkeley)

Yaser Pourmohammadi-Fallah (University of California at Berkeley)

Raja Sengupta (University of California at Berkeley)

LICP: A Look-ahead Intersection Control Policy with Intelligent Vehicles

Eun-Kyu Lee (University of California at Los Angeles)

Sungwon Yang (University of California at Los Angeles)

Soon Oh (University of California at Los Angeles)

Mario Gerla (University of California at Los Angeles)

Session 3: Sensing and Its Applications

Real-Time Weather Notification System using Intelligent Vehicles and Smart Sensors

Samy El-Tawab (Old Dominion University)

Mahmoud Abuelela (Old Dominion University)

Gongjun Yan (Old Dominion University)

Using RFID For Accurate Localization in Vehicular Ad hoc Network

Hongyu Huang (Shanghai Jiao Tong University)

Minjie Zhu (Shanghai Jiao Tong University)

Minglu Li (Shanghai Jiao Tong University)

Xu Li (Shanghai Jiao Tong University)

Min-You Wu (Shanghai Jiao Tong University)

Linghe Kong (Shanghai Jiao Tong University)