CALL FOR PAPERS

The Second International Workshop on Vehicular Traffic Management for Smart Cities (VTM 2014)

The rapid growth of the number of cars on the roads has created a plethora of challenges for road traffic management authorities such as, traffic congestion, increasing number of accidents, air pollution, etc. Over the last decade, researchers from both industry and academia have focused their efforts on exploiting advances in sensing and communication technologies to make the existing road Traffic Management Systems (TMSs) more efficient. Their main goal is to improve the traveler's safety, shorten the travel time and reduce the environmental impact.

Road traffic management for smart cities involves monitoring the actual traffic situation in real-time (including volumes, speeds, incidents, etc.) and then controlling or influencing the flow using that information in order to reduce traffic congestion, deal efficiently with incidents and provide accurate and reliable traffic information and prediction to both drivers and authorities. Moreover, it is foreseen that future smart cities will provide faster and secure emergency service delivery by granting proper traffic privileges to emergency vehicles.

This workshop seeks to bring together researchers, scientists and engineers from various research communities, as well as practitioners and administrators who face the challenges of traffic management in smart cities. They are all welcome to present and discuss their latest research findings, ideas, simulation tools and applications at the 2014 VTM workshop.

Topics of interest include, but are not limited to:

• Vehicular traffic management

• Vehicle-to-Vehicle (V2V) and Vehicle-to-Infrastructure (V2I) protocols for smart cities

• Data sensing and gathering techniques in urban environments

• Mobile sensing (privacy, trust management and security issues)

• Data fusion and integration for traffic management systems (techniques, algorithms, data types, etc.)

• Distributed simulations for large scale urban environments

• Route planning protocols and road traffic prediction mechanisms

• Wireless Sensor Networks (WSNs), Wireless Mesh Networks (WMNs) and VANETs applied to traffic management systems in smart cities

• Mobility and vehicular traffic measurement, modeling, and simulation

• Security and QoS issues for ITS applications

• V2X feasibility over LTE networks

• M2M communication for data collection in road environment

• Mobile applications for intelligent traffic management

• Deployment issues for smart infrastructure in urban areas

• Vehicular Sensor Networks (VSNs) applications for road traffic management

• Decision making tools for road traffic management

• Electric vehicles