SPECIAL ISSUE ON

Multimedia and Social Data Processing in Vehicular Networks

Overview:

As the growth of auto industry and wireless communication technologies, vehicular computing and communication devices have been widely installed on automobiles in recent years. Consequentially, automobiles can provide fast and powerful multimedia information processing and transmission functions. Thanks to this fact, various multimedia and social applications can be deployed on automobiles, where driver's and passenger's experience is significantly benefited. Nonetheless, the booming of augmented and auto driving techniques will soon put more data intensive burdens on the vehicular computing devices.

Multimedia and social data processing in vehicular network, however, is facing several technical challenges. First, despite of the growing computing capability, vehicular multimedia and social applications still need to be carefully designed such that the resources being used and the associated network traffic can be minimized. Second, current vehicular network bandwidth is far less than the data generation rate of most vehicular multimedia applications. How to enable efficient communication among multimedia applications of different cars becomes acritical technical issue. In the end, the multimedia and social data generated by vehicles contain tons of hidden information. How to discover knowledge and insights, as well as enhancing the security, trust and privacy preservation for vehicular networks, will attract more attentions.

This special issue is intended to provide a unique international forum for researchers from the industry and academia, with specialties in vehicular network, multimedia communication, edge computing, data mining, applications and standards in these fields. Original unpublished contributions are solicited for the goal of improving the knowledge and practice in the integrated design of efficient technologies and the relevant provision of advanced vehicular multimedia applications.

Topics
Topics of interest include, but are not limited to, the following scope:

☐ Multimedia Data Transmission and Processing in Auto-Driving Applications.	☐ Vehicular Social Network
	☐ Communication Technologies in Auto-Driving Applications.
☐ Security, trust and privacy preservation for Vehicular Network.	☐ Advanced Communication and Networking Technologies in Vehicular Network

① Performance Modeling and Testbed for Vehicular Network ① Knowledge Discovery and Data Mining in Vehicular Network	① Vehicular Clouds and Edge Computing ① Big Data Analytic for Autonomous Vehicular Applications

Important Dates

- **Manuscript submission deadline: July 15th, 2018**

- Notification of acceptance: November 1st, 2018

- Submission of final revised paper: December 15th, 2018

- Publication of special issue (tentative): March, 2019

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through http://www.editorialmanager.com/mone/.

A copy of the manuscript should also be emailed to the Guest Editors at the following email

address(es)：

Qing Yang, qing.yang@unt.edu; Guangchi Liu, luke.liu@stratifyd.com

Lead Guest Editor：

Qing Yang, University of North Texas, USA

Guest Editors：

Tigang Jiang, University of Electronic Science and Technology of China, China
Wenjia Li, New York Institute of Technology, USA
Guangchi Liu, Stratifyd Inc., USA
Danda B. Rawat, Howard University, USA
Jun Wu, Tongji University, China