

Special Issue on “Recent Advances on Social Internet of Vehicles”

Call for papers:

Recently, Internet-of-Things (IoT) applications have been moving towards a network of intelligent objects with social capabilities, defined as the Social Internet of Things (SIoT). Different types of relationships exist among things, thus forming social connections such as parental-object relationship, co-work-object relationship, co-location-object relationship, ownership-object relationship, and so on.

The definition of Internet of Vehicles (IoV) applies to an interconnected set of vehicles providing information for common services such as traffic management and road safety. The Social IoV (SIoV) is an extension to the concept of IoV, where the social networking concepts of SIoT are applied to IoV. In SIoV, smart vehicles build social relationships with other social objects they might come into contact, including other vehicles and Road Side Units, with the intent of creating an overlay social network to be exploited for information search and dissemination for vehicular applications.

In SIoV scenario, several challenges are worth to be investigated. SIoV paradigm is still in its infancy but there is a concrete interest by the research community, automotive industry and social application providers to develop SIoV applications.

The special issue on “Recent Advances on Social Internet of Vehicles” accepts papers dealing with the following topics of interest (but not limited to):

- Data dissemination mechanisms in SIoV;
- Social-based network protocols for SIoV;
- Privacy, trust, and security issues in SIoV;
- Autonomic service discovery in SIoV
- Data management, big data processing and analytics in SIoV
- Integration of SIoV and cloud/edge/fog/on-board computing environment
- SIoV in 5G and vehicular network environments
- Test-bed and simulation tools for SIoV
- New Intelligent Transportation Systems (ITS) and services based on SIoV

Important dates:

Manuscript Submission: March 1, 2018	Second Reviews Due/Notification: July 15, 2018
First Reviews Due: May 15, 2018	Final Manuscript Due: August 15, 2018
Revision Due: June 15, 2018	Publication Date: 2018

Submission:

All original manuscripts must be submitted electronically through IEEE Manuscript Central, <https://mc.manuscriptcentral.com/iot>. All manuscripts will be peer reviewed and must follow the standard guidelines for manuscript preparation and submission available at <http://iotjournal.weebly.com/guidelines-for-authors.html>. Select the “**Recent Advances on Social Internet of Vehicles**” special issue, when uploading your manuscript.

Guest Editors:

- Anna Maria Vegni (Roma Tre University, Italy). Email: annamaria.vegni@uniroma3.it
- Valeria Loscri (INRIA Lille-Nord Europe, France). Email: valeria.loscri@inria.fr
- Giuseppe Ruggeri (Università degli Studi di Reggio Calabria, Italy). Email: giuseppe.ruggeri@unirc.it
- Abderrahim Benslimane (Université d’Avignon et des Pays du Vaucluse, France). Email: abderrahim.benslimane@univ-avignon.fr
- Kwang-Cheng Chen (University of South Florida, USA). Email: kwangcheng@usf.edu