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IEEE Internet of Things Journal Special Issue on Internet of Vehicles

The connected-car market is driving the evolution of Vehicular Ad hoc Networks (VANET) into the Internet of Vehicles (IoV) and is growing at a five-year compound annual growth rate of 45%, which is 10 times as fast as the overall car market. This in turn requires new services platforms with powerful processing and computing resources, low cost and trusted storage, and real-time communication capabilities. Edge computing appears as a very interesting opportunity in migrating Cloud resources near the vehicles and the data sources and saves network resources. This Special Issue (SI) aims at discussing state of the art work for connected-cars technology ramp and markets trends, presenting new solutions for networking, compute and processing challenges to deal with connected-cars services, and investigating the Fog Computing and Mobile Edge Computing role for connected vehicles showing deployment architecture examples, technology enablers and security concerns. Topics of interests include (but are not limited to):

- Connected vehicles processing, compute and networking technologies
- Vehicular clouds with Fog Computing
- 5G networks in vehicular clouds
- Architectures and protocols enabling different services for connected vehicles
- Security, Privacy and Trust for connected vehicles and vehicular clouds
- Context-aware services
- Wireless communication standards and regulations in vehicular clouds deployment
- Proof of Concepts on vehicular clouds
- Distributed compute and storage and big data analytics in vehicular clouds
- Video-based services in vehicular clouds (e.g. Automatic License Plate Recognition, Traffic Surveillance, Augmented Reality, etc.)

Important Dates

Submissions Deadline: September 15th 2016   First Reviews Due: November 15th 2016
Revision Due: November 30th 2016   Second Reviews Due/Notification: December 15th 2016
Final Manuscript Due: January 10th 2017   Publication Date: April 2017

Submission

The special issue seeks submission of papers that present novel original results and findings on IoV. Solicited original submissions must not be currently under consideration for publication in other venues. Author guidelines and submission information can be found at http://iot.ieee.org/journal. All manuscripts should be submitted through Manuscript Central: http://mc.manuscriptcentral.com/iot.

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