

IEEE Internet of Things Journal Special Issue on

IoT on the Move: Enabling Technologies and Driving Applications for Internet of Intelligent Vehicles (IoIV)

The new era of the Internet of Things (IoT) is prompting the evolution of conventional Vehicle Ad-hoc Networks (VANETs) into the Internet of Intelligent Vehicles (IoIV). Different from a vehicle in VANETs, which is mainly considered as a node disseminating messages among multiple vehicles, each vehicle in the IoIV paradigm is expected to be a smart object equipped with a powerful multi-sensor platform, communication capability, computing units, and Internet protocol (IP)-based connectivity, such as to be highly efficient in various vehicular and transportation applications.

As a unique subset of general purpose IoT, IoIV can benefit from existing research on VANET, which lays the foundation towards a more pervasive and ubiquitous communications and networking core that is essential for IoIV. Nevertheless, research in many aspects of IoIV, especially application-driven and data-oriented ones, is still at its infancy. Henceforth, in this special issue, we aspire to provide a venue for open discussions on envisioned driving applications of IoIV and the expected requirements on various enabling technologies including communications and networking, data science and data analytics, as well as control and computing issues. The aim is to provide IoIV researchers with the application-oriented objectives and IoIV developers with the state-of-the-art technologies. The potential topics of interest include (but are not limited to) one or more of the following:

- Data-Driven Applications in IoIV
- Data Storage Technologies for IoIV
- Image/Video Processing for IoIV
- Security and Privacy in IoIV
- V2X Communications and Networking for IoIV
- Unmanned Aerial Vehicles (UAVs)-Assisted Communications in IoIV
- Experimental Systems and Field Test of Real-World IoIV Systems
- Resource Management and Scheduling for IoIV
- Cloud-Based Services and Applications in IoIV
- Intelligent and Unmanned Driving Technologies in IoIV
- Electric Vehicles (EVs)-Integrated Applications in IoIV

Important Dates

Submissions Deadline: **April 1, 2018**

First Reviews Due: June 15, 2018

Revision Due: July 15, 2018

Second Reviews Due/Notification: August 15, 2018

Final Manuscript Due: **September 15, 2018**

Publication Date: 2018

Submission

All original manuscripts or revisions to the IEEE IoT Journal must be submitted online through IEEE Manuscript Central, <http://mc.manuscriptcentral.com/iot>. Author guidelines and submission information can be found at <http://iot.ieee.org/journal>. The IEEE IoT Journal encourages authors to suggest potential reviewers as part of the submission process, which might help to expedite the review of the manuscript. Please suggest only those without conflict of interest. Each submission must be classified by appropriate keywords.

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