

IEEE Internet of Things Journal Special Issue on Internet of Things for Connected Automated Driving

Internet-of-things (IoT) is becoming increasingly prevalent in the transportation systems. The traffic system depends on safer, faster, and more intelligent vehicles. The vehicular communication networks (vehicle-to-everything, V2X) and the automated driving technique are two of the cornerstone technologies enabling the construction of future-generation highly functional and intelligent transportation system. The IoT-based transportation system can provide enormous connections of devices and sensors for the networked automated vehicles. The capacity of connected automated vehicles is expected to be dramatically enhanced by employing the IoT techniques. This calls for novel approaches and rethinking of the design of next-generation vehicular networks, particularly for the automated vehicles. Therefore, it is essential to pursue research on new theories, architectures, and techniques to exploit the capability that is delivered by IoT for forming more efficient and intelligent transportation system. This special issue aims to create a platform for researchers, developers and practitioners from both academia and industry to disseminate the state-of-the-art results and to advance the applications of IoT for connected automated driving technology.

Topics of interests include (but are not limited to) the following:

- Innovative IoT techniques to connect automated vehicles
- V2X communication
- IoT-based solutions for connected vehicles
- Vehicular IoT Infrastructure
- IoT-based sensing and recognition
- Testing and verification of connected automated vehicles
- IoT-based navigation and localization systems
- AI and deep learning approaches for IoT-enabled connected automated vehicles
- Cyber-physical-social systems based parallel driving

Important Dates

Submissions Deadline: **July 15, 2019**

First Reviews Due: October 1, 2019

Revision Due: November 15, 2019

Second Reviews Due/Notification: Dec 15, 2019

Final Manuscript Due: **Jan 1, 2020**

Publication Date: 2020

Submissions

All original manuscripts or revisions to the IEEE IoT Journal must be submitted electronically 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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