



Real-Time Data Services for the Internet of Things

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Message from the Guest Editors

The Internet of Things (IoT) interconnects embedded sensors, actuators, robots, vehicles, homes, buildings, factories, electric grids, and humans to support numerous important applications, including cognitive assistance, health care, smart homes and buildings, intelligent transportation, smart grids, and industry 4.0, with tremendous societal and economic impacts. By 2020, there will be tens of billions of connected things expected to generate trillion dollar revenues according to Cisco and Gartner. To realize the IoT vision, it is required to collect, exchange, store, analyze, and visualize high volume of data in real-time to detect, predict, and react to important events, such as abnormal health conditions of vulnerable populations, traffic delays and incidents, road hazards, demand-supply analysis and prediction for electric grids, and malfunctioning industrial robots, in a timely fashion. Achieving this goal, however, is challenging due to stringent timing constraints and big/fast real-time data streams. This Special Issue calls for original research articles, case studies, and applications that advance technologies for real-time data services for IoT.





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Message from the Editor-in-Chief

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