

Special Issue

Real-Time Data Services for the Internet of Things

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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About the Journal

Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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