

## Tentative Outline

Special Thematic Issue for the journal *Current Chinese Computer Science*

### Applications of Internet of Things and Web of Things

#### *Guest Editors:*

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#### • **Scope of the Thematic Issue:**

The techniques of the Internet of Things (IoT) and Web of Things (WoT) have been more and more popular in collecting sensing data and building intelligent services and applications. Some organizations (e.g., oneM2M, AllSeen Alliance, Open Connectivity Foundation (OCF), IEEE, etc.) were instituted to establish the standards and specifications of IoT for building an IoT ecosystem. These standards and specifications discuss the issues of data models, unique identification of things, service descriptions and dependencies, discovery, trust management, and real-time control and cyber-physical systems. For instance, the AllSeen Alliance and OCF designed discovery and advertisement mechanisms to send multicast packets for finding the adapted devices which include the target interface in wireless local area network based on IEEE 802.11 or personal area network based on IEEE 802.15 for building a self-organizing network. The devices can follow the data models and control methods in specifications to control other AllJoyn or OCF devices for IoT applications. However, the communications among the different techniques of IoT standards and specifications are important challenges.

**Keywords:** Internet of Things; Web of Things; oneM2M; AllSeen Alliance; Open Connectivity Foundation; Cyber-Physical Systems.#

#### **Sub-topics:**

The sub-topics to be covered within the issue should be provided:

- Applications of IoT
- Techniques of IoT
- Sensing Techniques for IoT
- Communication Techniques for IoT
- Middleware Techniques for IoT
- Data Analysis Techniques for IoT
- WoT Applications of Agriculture
- WoT Applications of Energy
- WoT Applications of Enterprise
- WoT Applications of Finance
- WoT Applications of Healthcare
- WoT Applications of Industry
- WoT Applications of Public Services
- WoT Applications of Residency
- WoT Applications of Retail
- WoT Applications of Transportation

### **Schedule:**

- ✧ Thematic issue submission deadline: 31 March 2021
- ✧ Peer Review Due: 1st May 2021
- ✧ Revision Due: 1st June 2021
- ✧ Announcement of acceptance by the Guest Editor: 25th June 2021 □
- ✧ Final manuscript due: 25th July 2021

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