Special Issue on

"Special Issue on Advanced Algorithms and Applications based on IoT for the Smart Devices"

Overview

Recently, the smart device based on IoT technologies has rapidly developed to the real industry field, and the smart devices have unlimited potential to be utilized in the ambient intelligence and humanized computing. Newly devised smart device-based services become to be provided for the prevention of disease, illness, injury, mental impairments in human beings based on Internet of Things(IoT), sensing, monitoring, measuring, predicting and reacting, intelligence to real world. For those services, diverse kinds of techniques such as the application of smart device paradigm includes computational methods, complex structures like fuzzy, neural networks, peer-to-peer computing including wireless sensor network IoT, data communication services at anytime and anywhere. Many computational methods based on IoT have been successfully applied to a range of optimization and classification problems, but there are still many practical problems tackled by traditional methods that are generally difficult to solve experimentally in practical smart devices for IoT environments.

For the aforementioned reasons, the special issue intends to give an overview of the state-of-the-art of issues and solution guidelines for the algorithms and applications based on IoT for the smart devices. In addition, it will provide completing the panorama of current research effort, which is widely inherent to topics of high interest for the algorithms and applications based on IoT for the smart devices. All submitted papers will be peer-reviewed and selected on the basis of both their quality and their relevance to the theme of this special issue. Research areas of relevance would therefore include, but not limited to, the following topics:

Topics (Areas of interest for this special issue include the following topics):

All submitted papers will be peer-reviewed and selected on the basis of both their quality and their relevance to the theme of this special issue. To reflect recent research advances on drones, this feature topic calls for original manuscripts with contributions in, but not limited to, the following topics:

- Algorithms based on IoT for the smart devices
- Fusion of research in evolutionary algorithms for the smart devices
- Genetic programming for the smart devices
- Fuzzy set theory and systems for the smart devices
- Neural networks for the smart devices
- Cognitive science and engineering for the smart devices
- Advanced service modeling in the smart devices
- Multimodal Interactions for the smart devices
- Adaptive and dynamic algorithms for the smart devices
- Computational models of communication mechanisms in the smart devices
- Privacy, Security, and Trust Issues for the smart devices
- Collective intelligence from IoT systems
- Autonomous computing and modeling in IoT
- Methods for improving efficiency of IoT

Submission Guidelines

All the papers should be full journal length versions and follow the guidelines set out by Journal of Ambient Intelligence and Humanized Computing (http://www.springer.com/engineering/computational+intelligence+and+complexity/journal/12652). Manuscripts should be submitted online at https://www.editorialmanager.com/aihc/default.aspx. All the papers will be peer-reviewed following the journal reviewing procedures. Authors have to select the Article Type "Advanced Algorithms and Applications - IoT" in the submission system.

Important Dates

Paper submission due: March 31, 2017
1st round review notification: April. 30, 2017
1st revision due: May. 30, 2017
2nd round review notification: June. 20, 2017
2nd revision due: July. 10, 2017
Final acceptance: August. 30, 2017
Publication: 3rd or 4th quarter, 2018 <tentative>

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