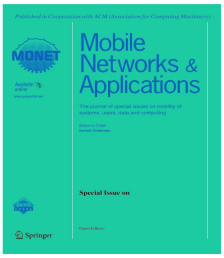

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SPECIAL ISSUE ON
Intelligent Cognitive Internet of integrated space and terrestrial Things

Overview: As a large-scale network to promote Information big data, Internet of Things (IoT) has been widely used in the fields of modern intelligent services such as ecological protection, intelligent home, food safety, energy-saving and emission-reduction, logistics and transport etc. The development of integrated space and terrestrial communication and networking technologies also provides strong technical support for the popularization of the IoT. However, due to the increasing of the user demands for efficient access to the massive and heterogeneous IoT information, how to improve the autonomous cognitive ability of IoT and realize the intelligent information transmission and integrated space and terrestrial connection has become urgent problems. Although some intelligent sensors have been proposed, there still exists some problems such as intelligent cognition, complex management, high maintenance cost, insufficient self-adaptability and integrated space and terrestrial networking. Hence, the existing IoT needs to change from "perception" to "cognition" through combining IoT with some cognitive technologies, such as machine learning, deep learning, artificial intelligence, etc. Cognitive IoT enables organizations to learn from data coming from connected devices, sensors, machines and other sources, and infuses intelligence into business operations, customer experiences, products and people.

Topics

Topics of interest include, but are not limited to, the following scope:

- Intelligent Cognitive technologies for IoT
- Spectrum sensing and spectrum sharing for cognitive IoT
- Cognitive self-organization networks
- Smart network management and resource allocation techniques for huge sensor networking
- Large-scale cognitive communications and networks
- Self-organization network related issues in self maintenance and self install
- Smart network management and resource allocation techniques
- Self-organization network based on environmental monitoring
- Current and future trends in cognitive IoT
- Performance evaluation metrics of cognitive IoT
- Optimization techniques for efficient resources planning
- Energy management and green technology
- Metrics, fundamental limits, and trade-offs involving cognitive IoT
- Intelligent technique for cognitive satellite communications

Important Dates

- Manuscript submission deadline: **15th, Sep. 2018**
- Notification of acceptance: **15th, Oct. 2018**
- Submission of final revised paper: **30th, Oct 2018**
- Publication of special issue (tentative): **30th, Nov 2018**

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through http://www.editorialmanager.com/mone/.

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