Call for Papers for

Special Issue on **Empirical Multimedia Service and its Application for Internet of Things**

**Multimedia Tools and Applications**- Springer

[http://www.springer.com/computer/information+systems+and+applications/journal/11042](http://www.springer.com/computer/information+systems+and+applications/journal/11042)

The Internet of Things (IoT) is a worldwide network of interconnected objects in which each object has a virtual avatar that behaves as an active entity. All IoT objects have five main characteristics: existence, sense of self, connectivity, interactivity, and dynamicity. Thus, IoT promises anything, anyone, any service computing. So, IoT has developed vigorously, and been applied not only in the academic research and industrial fields but also in daily life, such as smart grid, e-learning, e-health, e-home, environment monitoring, smart city and so on. Due to fast developments and application in this technology and amazing growth of user demands, media are increasingly ubiquitous: more and more people are immersed in a world of Internet pop-ups and streaming television, multimedia broadcast using wire/wireless network, mobile/smart phone application and video clips, etc. Multimedia systems usually involve the integration of various independent media streams, including both continuous (audio or video) and discrete streams (text, images, etc.), sent (unicast or multicast) by one or more sources to one or several receivers, which can be playing one or several of those streams. Multimedia service and application were changed by this new trend, and multimedia system can provide their contents to more various fields. In IoT environment, multimedia contents can be generated locally or downloaded from the Internet through any WiFi, DSRC, WiMAX, 4G LTE connections available to the mobile/smart devices, and enable the end-user or end-system to take appropriate actions and be aware of the environmental conditions based on rich visual information. Mobile multimedia IoT enables a large class of scenarios ranging across diverse areas, including safety & security, environmental monitoring, natural disaster recovery applications, and others. This special issue calls for high quality, up-to-date technology related multimedia service and its application for IoT and state-of-the-art research issues. In particular, the special issue is going to showcase the most recent achievements and developments in the realm of smart/mobile multimedia technologies. Original and research articles are solicited in all aspects of including theoretical studies, application technology, new communication technology and experimental system or development. 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. Potential topics include, but are not limited to:

We invite contributions that address themes related to Smart technology with Multimedia, but are not limited to:

- IoT based Multimedia content
- Multimedia networking and communication
- Multimedia systems, services, architecture and implementations
- Social, user generated, and cloud based multimedia
- Mobile multimedia services over IoT
- Multimedia sensing in IoT environment
- Multimedia communication over IoT
- IoT and Smart grid communications
- Next generation home networks with multimedia
- Emerging wireless and mobile applications with IoT
- Mobility, location and handoff management with IoT
- IoT and Cloud computing
- User interfaces with IoT
- Experimental trials and deployment for multimedia service
- Wireless multicast and streaming for multimedia service
- Advanced multimedia system for IoT
- High performance multimedia technologies and applications for IoT
- Multimedia networking in IoT environment
Submission Details

Format: All the papers should be full journal length versions and follow the guidelines set out by Multimedia Tools and Applications: http://www.springer.com/computer/information+systems/journal/11042.

Submission and Review: Manuscripts should be submitted online at https://www.editorialmanager.com/mtap/ choosing "Smart technologies and application with multimedia system” as article type. When uploading your paper, please ensure that your manuscript is marked as being for this special issue. All the papers will be peer-reviewed following the MTAP reviewing procedures.

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