Special Issue Proposal

Multimedia Tools and Applications- Springer

http://www.springer.com/computer/information+systems+and+applications/journal/11042

Special Issue on Toward Smart World: Wireless Multimedia Sensor Network and its Application

Call for Papers

Wireless Multimedia Sensor Network (WMSN) is a network of wirelessly interconnected sensor nodes equipped with multimedia devices capable of retrieving video streams, images, audio streams and scalar sensor data. The availability of inexpensive hardware such as CMOS cameras and microphones has led to the development of WMSNs. WMSNs are able to store, process in real-time, correlate and fuse multimedia data originated from heterogeneous sources, so it can be widely used in industrial, military, transport and logistics, Video surveillance, telemedicine, traffic congestion, avoidance systems, speed control, car parking assistance, advanced health care delivery, structural health monitoring, environmental monitoring and other areas is an hot research filed currently. Many of these applications require the sensor network paradigm. With the deployment of Wireless Sensor Networks which not only effectively acquires the data from different locations and then distribute to the management centers but also facilitates a variety of applications in our environment, an advancement of smart sensors and ubiquitous network enable to realize smart world. The notion of smart world is becoming a reality with the development of variety of smart technologies. The technologies with WMSNs can be applied the intelligence functions to Smart Factories, Smart Homes, Smart Offices and so on. A smart world relies first and foremost on sensory data acquired from multiple sensors in distributed locations of real world.

This special issue calls for high quality, up-to-date technology related multimedia service and its application, Smart technique, wireless multimedia sensor network and its application toward smart world 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 wireless multimedia sensor network with smart technology. 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:

- Ad hoc and Opportunistic Networks
- Vehicular Networks
- Mobile Agents for Multimedia
- Mobile Internet and its Multimedia Applications
- Node Placement and Topology Control Issues
- Wireless Multimedia, QoS Adaptation
- Wireless and Mobile Communications and Networks
- Smart Fabrics and Wearables
- Multimedia Connectivity and Communication
- RFID Readers and Tags
- Multimedia Signal Processing
- Multimedia Data Overload
- Multimedia based Industrial and Structural Monitoring
- Smart Grids and Energy Control Systems
- Smart Buildings and Smart Cities
- Home Monitoring and Assisted Living Applications
- Wireless Surveillance
- Multimedia Performance Modeling and Analysis
- Sensor Networks for the Smart Grid
- Smart Devices, Spaces and Objects in WMSN
- Novel WMSN applications
- Multi-tier Heterogeneous WMSNs
- QoS in WMSN
- Multimedia aggregation and fusion in WMSN
- Object Monitoring and Tracking in WMSN
- Video Streaming in WMSN
- Energy Conservation and Management in WMSN

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.

Submission Deadline: Wednesday, December 30 2015.
First Revision: Wednesday, March 30 2016.

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