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Call for Papers

Special Session: *Distributed Technological Solutions for a Viable Smart City*

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Details of Proposed Session

Overview

Information and Communications Technology (ICT) has significantly progressed in recent years by relying heavily on wireless communications. Now current trend is to have wireless connectivity of all the devices and numerous emerging solutions and applications are proposed based on wireless communications. With the emergence of concept like Internet of Things (IoT), device to device communication with standard protocols has become a challenging in terms of scalability, reliability, big data analytics, and energy consumption.

Aims and Objective

IoT consists of sensors and actuators embedded in physical objects from containers to pacemakers, which are linked through wired/ wireless networks to the Internet. When objects in IoT can sense the environment, interpret the data, and communicate with each other, they become tools for understanding complexity and for responding to events and irregularities promptly. The IoT is therefore seen by many as the ultimate solution for getting fine grained insights into business processes in the real-world and in real-time as in field of healthcare, agriculture, pollution control, water quality monitoring, road traffic monitoring and many more. IoT was coined a decade ago, but now it is matured in terms of providing viable solutions for business. So this issue demands special category research papers on wireless

communication, IoT, IoT based cloud solutions for business etc. IoT has prevalence in field of growth in terms of ground reality for smart cities. All the challenges and solutions in smart cities developments are one of vital inclusions in this issue. In addition, Smart City is the product of the new generation information technology and knowledge-based economy, based on the network combination of the Internet, telecommunications network, broadcast network, wireless broadband network and IoT as its core. The main features of a smart city include integration of information technology and its application for facilitations and solution of daily life activities. It includes smart technology, smart industry, smart services, smart management and smart life.

The motivation of the special session is to bring together scholars, professors, researchers, engineers and administrators resorting to the state-of-the-art technologies and ideas to significantly improve the field of IoT based solutions for a viable Smart City solution.

This special session presents original research and technological development for addressing real and complex issues related to society and technology.

A research area for this special session includes but not limited to:

1. IoT architectures and system design
2. IoT networking and communication
3. Circuit and system design for smart objects in the IoT
4. Novel IoT services and applications for society/corporations/individuals
5. Smart City architecture and infrastructure
6. Smart City technology
7. Smart City applications
8. Smart services
9. Smart management
10. Smart home
11. Cloud Computing in Smart City
12. Big data in Smart City
13. Wireless sensor networks
14. Mobile Internet
15. Real-time and semantic web services
16. Data management in IoT Localization in IoT
17. System design, modeling and evaluation
18. Ubiquitous sensing
19. Networks and communications
20. Intelligent data processing