Call for Papers
IET Wireless Sensor Systems

Editor-in-Chief: Sherali Zeadally, University of Kentucky, USA

Special Issue:
Advanced Applications and Services on Software Defined Networking (SDN) and Software Defined Sensor Networks (SDSN)

Software Defined Networking (SDN) is a novel paradigm that is changing the way we think of networks and communications. The basic idea of SDN is the separation between data and control plane in network devices and the centralized control of the network. This new global view of network resources has led to tremendous advances in new intelligent network services, usually not fulfilled by traditional architectures. In addition, SDN reduces the complexity of network configuration and management. For this reason, SDN-based applications are expected to experience an exponential growth in the next few years including an extension of this concept for example to infrastructure-less wireless networks (Software Defined Sensor Networks SDSN). However, this paradigm shift creates new challenges for both the industry and research communities. Efficient resource management, security, quality of service or the integration with other platforms such as cloud, big data or internet of things are still open questions in this new model. To explore these research issues, this special issue will present state-of-the-art of issues, current efforts, and solutions for SDN and SDSN. All submitted papers will be peer-reviewed and selected based on their quality and their relevance to this special issue.

Potential topics include, but are not limited to:

- SDN-SDSN applications for wireless, mobile and multimedia networks
- Advances in Southbound and Northbound APIs for SDN-SDSN networks
- Software Defined Networks programming and simulation
- Tools for management and troubleshooting of Software Defined based networks
- Interoperable service-oriented technologies to share real world data among heterogeneous devices
- Integration of Software Defined technologies with traditional sensor network architectures
- Scalable management of network, computing and storage capacity
- Advanced security, privacy, authentication, trust and verification with the SDN-SDSN technology
- Performance analysis on single and multi-controller architectures
- Orchestration of virtual network resources

The Authors should indicate “Special Issue on Advanced Applications and Services on Software Defined Networking (SDN) and Software Defined Sensor Networks (SDSN)” on their manuscripts. Any enquiries can be made to the IET or the Guest Editors.

All submissions are subject to the journal’s peer-review procedures. The authors should follow the journal’s Author Guide at http://digital-library.theiet.org/journals/author-guide when preparing papers for submission to the Special Issue.

All papers must be submitted through the journal’s Manuscript Central system: http://mc.manuscriptcentral.com/iet-wss

Important dates:

Submission deadline: 31 August 2014
Notification of acceptance: 31 October 2014
Publication: March 2015

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