



IEEE International Conference on Communications  
20-24 May 2019 // Shanghai, China  
Empowering Intelligent Communications

## CALL FOR PAPERS

### AD-HOC AND SENSOR NETWORKS (AHSN) SYMPOSIUM

#### Symposium Co-Chairs

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#### Scope and Topics of Interest

Ad hoc and sensor networks have attracted much attention within academia and industry in the past decade. In recent years however those networks have found a new paradigm due to the exponential increase in number and processing power of smart phones and other portable devices. Furthermore, new applications and emerging technologies have created new research challenges for ad hoc networks. The emerge of new concepts such as Smart Home and Smart City, Body Area Networks and E-Health, Device-to-Device Communications, Machine-to-Machine Communications, Software Defined Networks, the Internet of Things, RFID, and Small Cells are all among those networks that put the traditional ad hoc networking in a new and challenging paradigm. To this end, the focus of the Ad-hoc and Sensor Networks Symposium of ICC 2019 is on novel applications, protocols and architectures, non-traditional measurement, modeling, analysis and evaluation, prototype systems, and experiments in ad hoc and sensor networks.

The Ad-hoc and Sensor Networks Symposium of ICC 2019 is soliciting papers that describe original and unpublished contributions. Papers submitted to ICC 2019 must not be under consideration for publication elsewhere, whether journals or conferences. Topics of interest include, but are not limited to:

- Cross-layer design and optimization in ad-hoc and sensor networks
- Mobility management and modeling in ad-hoc and sensor networks
- Synchronization and coordination techniques in ad-hoc and sensor networks
- Security for ad-hoc and sensor networks
- Participatory and public sensing systems
- Performance evaluation and modeling in ad-hoc and sensor networks
- Simulation methodologies and tools for wireless ad-hoc and sensor networks
- Integrated simulation and measurement based evaluation for ad-hoc and sensor networks
- Experimental prototypes and testbeds for ad-hoc and sensor networks

- D2D, and machine type communications
- Body area networks and e-Health
- Cognitive ad-hoc and sensor networks
- Software-defined ad hoc and sensor networks
- Ultra-wideband communications and applications
- RFID applications and protocols
- Smart-home, smart-grid, smart-vehicle, and smart-city
- Internet of things (applications, protocols and architectures)
- Wireless sensor and actuator networks
- New and unconventional applications of ad-hoc and sensor networks
- Novel paradigms, architectures and operation models of ad-hoc and sensor networks
- Wireless multimedia and 3-D sensor networks
- Underwater and underground sensor networks
- Multi-hop wireless mesh and community networks
- Wireless PANs
- Pervasive and wearable computing
- Delay-tolerant ad-hoc networks
- Self-organization and autonomic networking
- Vehicular ad hoc networks
- Co-existence issues of hybrid networks
- Wireless, ad-hoc, and sensor devices
- Ultra-wide band technology for ad-hoc and sensor networks
- MAC protocols for ad-hoc and sensor networks
- Frequency and channel allocation algorithms for ad-hoc and sensor networks
- Quality of Service provisioning and management in ad-hoc and sensor networks
- Standardization activities for ad-hoc and sensor networks
- Energy optimization and scavenging for ad-hoc and sensor networks
- Service discovery in ad-hoc and sensor networks
- Location and context aware services in ad-hoc and sensor networks
- Scheduling and resource management algorithms in ad-hoc and sensor networks
- Deployment and coverage analysis of sensor networks
- Localization in ad-hoc networks
- Routing and multicasting protocols in ad-hoc and sensor networks
- Topology control and management
- Sensor fusion and synergy
- In-network processing and data storage
- Fault-tolerance and traffic reliability issues in ad-hoc and sensor networks

### **Submission Guidelines**

The IEEE ICC 2019 website provides full instructions on how to submit papers and the paper format.

You will select the desired symposium when submitting papers.

**The paper submission deadline is October 14, 2018.**

Only PDF files will be accepted for the review process and all submissions must be done through EDAS at <http://edas.info/>