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# Call for Papers

# Ad Hoc and Sensor Networks Symposium

## Symposium 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 decades. In recent years, 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 emergence 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 place the traditional ad hoc networking in a new and challenging paradigm. To this end, the focus of the Ad-hoc and Sensor Networks Symposium is on novel applications, protocols and architectures, non-traditional measurement, modelling, analysis and evaluation, prototype systems, and experiments in ad hoc and sensor networks. The Ad-hoc and Sensor Networks Symposium solicits papers that describe original and unpublished contributions. Papers must not be under consideration for publication elsewhere, whether journals or conferences. Topics of interest include, but are not limited to:

- Body area networks and e-health
- Co-existence issues of hybrid networks
- Cognitive ad-hoc and sensor networks
- Cross-layer design and optimization in ad-hoc and sensor networks
- D2D, and machine type communications
- Delay-tolerant ad-hoc networks
- Deployment and coverage analysis of sensor networks
- Energy optimization and scavenging for ad-hoc and sensor networks

- Experimental prototypes and testbeds for ad-hoc and sensor networks
- Fault-tolerance and traffic reliability issues in ad-hoc and sensor networks
- Frequency and channel allocation algorithms for ad-hoc and sensor networks
- In-network processing and data storage
- Integrated simulation and measurement-based evaluation for ad-hoc and sensor networks
- Internet of things (applications, protocols and architectures)
- Localization in ad-hoc networks
- Location and context aware services in ad-hoc and sensor networks
- MAC protocols for ad-hoc and sensor networks
- Mobility management and modelling in ad-hoc and sensor networks
- Multi-hop wireless mesh and community networks
- New and unconventional applications of ad-hoc and sensor networks
- Novel paradigms, architectures and operation models of ad-hoc and sensor networks
- Participatory and public sensing systems
- Performance evaluation and modelling in ad-hoc and sensor networks
- Pervasive and wearable computing
- Quality of Service provisioning and management in ad-hoc and sensor networks
- RFID applications and protocols
- Routing and multicasting protocols in ad-hoc and sensor networks
- Scheduling and resource management algorithms in ad-hoc and sensor networks
- Security for ad-hoc and sensor networks
- Self-organization and autonomic networking
- Sensor fusion and synergy
- Service discovery in ad-hoc and sensor networks
- Simulation methodologies and tools for wireless ad-hoc and sensor networks
- Smart-home, smart-grid, smart-vehicle, and smart-city
- Software-defined ad hoc and sensor networks
- Standardization activities for ad-hoc and sensor networks
- Synchronization and coordination techniques in ad-hoc and sensor networks
- Topology control and management
- Ultra-wideband technology, communications and applications
- Underwater and underground sensor networks
- Vehicular ad hoc networks
- Wireless, ad-hoc, and sensor devices
- Wireless multimedia and 3-D sensor networks
- Wireless personal area networks
- Wireless sensor and actuator networks

## Submission Guidelines

The IEEE ICC 2020 website (icc2020.ieee-icc.org) provides full instructions on manuscript format and how to submit a manuscript. You will select the desired symposium/track when submitting your manuscript.