IEEE GLOBECOM 2020

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Communications for Human and Machine Intelligence

GLOBECOM 2020 Ad-hoc and Sensor Networks Symposium CALL FOR PAPERS

SCOPE AND MOTIVATION

Ad hoc networks are highly adaptive and self-organizing networks that do not rely on pre-existing communication infrastructure. Sensor and actuator networks consist of multiple devices that are usually sparsely distributed and need to operate in an autonomic and energy-efficient manner. These networks have been the focus of interest of both academia and industry during the past few years, given their large application scope both in the military and civilian fields, ranging from environmental monitoring, body area networks for healthcare, to vehicular networks for road safety, and support for communications in the battle field. This interest is ever increasing now, with the gamut and diversity of sensors, devices and systems that are being connected to the Internet of Things transforming the way we live and work and making for smart cities and smart industries. Important challenges that need to be addressed include spectrum allocation and technology coexistence, autonomy and self-healing capabilities, and security, to name just a few.

The Ad Hoc and Sensor Networking Symposium at GC 2020 aims at providing a forum for sharing ideas among researchers and practitioners working on the state-of-the-art solutions related to Ad Hoc and Sensor Networks. We are seeking papers that describe original and unpublished contributions addressing various aspects of the topics listed below (but not limited to).

MAIN TOPICS OF INTEREST:

- Wireless Sensor and Actuator Networks and their Applications
- Protocols, architectures and applications for the Internet of Things
- Machine-to-Machine (M2M) Communications in Ad Hoc Networks
- Standardization for Ad Hoc and Sensor Networks
- Vehicular Ad Hoc Networks
- Aerial Ad Hoc Networks
- Underwater and Underground Sensor Networks
- Delay Tolerant Networks and Opportunistic Ad Hoc Networking
- Body Area Networks
- Nano Ad hoc Networks
- Software Defined Networking for Multi-Hop Networks
- Ultra-Wide Band Technology for Ad-Hoc and Sensor Networks
- Cognitive Radio Networks in Multi-hop Environments
- Co-existence Issues of Heterogeneous Ad Hoc Networks

- MAC and Routing Protocols for Ad Hoc networks
- QoS Provisioning for Ad Hoc Networks
- Data Aggregation and Dissemination in Multi-hop Networks
- Security, Privacy and Trust issues in Wireless Ad Hoc and Sensor Networks
- Energy Saving, Power Control and Energy Scavenging for Ad Hoc and Sensor Networks
- Cross-layer Design in Ad Hoc Networks
- Service Discovery for Multi-hop Networks
- Pricing, Modeling and Solutions for Multi-Hop Networks
- Performance Evaluation and Modeling of Ad Hoc Networks
- Experimental Prototypes and Testbeds for Ad Hoc and Sensor Networks
- Crowd Sensing and Crowd Sourcing Networks
- Machine Learning and/or Game Theoretical Models for Ad hoc and Sensors Networks
- Energy-efficient Design for Green Ad-hoc and Sensor Networks

SYMPOSIUM CO-CHAIRS:

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IMPORTANT DATES

Paper Submission: 15 April 2020
Acceptance Notification: 25 July 2020
Camera-Ready: 1 September 2020

SUBMISSION

All papers for technical symposia should be submitted via EDAS through the following link: https://edas.info/N27054