AdHoc-Now 2020
19-21 October 2020 | Bari, Italy

Call for Papers

The 19th International Conference on Ad Hoc Networks and Wireless (AdHoc-Now 2020) will take place in Bari, Italy, on 19-21 October 2020.

AdHoc-Now has become a well-known and well-established event dedicated to wireless and mobile computing. It aims to bring together Information and Communication Technologies (ICT) experts from research institutions, academia, and industry, as well as start-ups and investors. The event also serves as a forum for interesting discussions on ongoing research and novel contributions in the context of wireless and mobile computing.

The AdHoc-Now 2020 organization team seeks original contributions as work in progress, experimental, and theoretical research in wireless, sensor, ad-hoc, mobile, and satellite communication systems. Among the selected topics, there will be <u>three special tracks</u>:
- *Smart Mobility*
- *Internet of Medical Things*
- *Wireless & Softwarization*

For all the topics and tracks, authors are invited to submit **Full-length Research Papers, short Work-in-Progress Papers**, or **Demo Papers**.

Important updates

Due to Covid-19 outbreak, we are extending the deadline of the conference by one month. We would like to inform all contributors that, in case the outbreak will not be recovered in time, the conference will run in online mode.

Important dates of AdHoc-Now 2020

Abstract Registration:	~~5 April 2020~~	-> 5 June 2020
Full Paper Submission Due:	~~15 April 2020~~	-> 14 June 2020
Notification to the Authors:	~~1 July 2020~~	-> 1 August 2020
Authors registration and camera-ready:	~~1 August 2020~~	-> 1 September 2020
End of early bird rates:	~~1 September 2020~~	-> 1 October 2020
AdHoc-Now Conference 2020:	19-21 October 2020	

Author instructions

Submissions must not be published or under review for any other conference or journal. All manuscripts must be in English. Full-length Research Papers should be 12 pages (single column), short Work-in-Progress Papers should be 6 pages (single column), and Demo Papers should be 6 pages (single column), all based on templates provided by Springer.

Papers can be submitted through the Springer OCS system in pdf form.
Please, follow the submission link: https://ocs.springer.com/ocs/home/AdHocNow2020

Organized by:

Politecnico di Bari

Supported by:

cnit — consorzio nazionale interuniversitario per le telecomunicazioni

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Three special tracks on the following topics

AdHoc-Now 2020 will consider three special tracks: smart mobility, Internet of Medical Things, and Wireless & Softwarization.

Smart mobility
- Novel network architecture for future urban mobility systems
- Optimized, secure, configurable, and energy-efficient communication protocols for smart mobility
- Interoperability among heterogeneous technologies (IoT, V2X, 5G, B5G, and so on)
- Machine learning approaches applied to smart mobility
- Experimental testbed and demo on recent advancements in the smart mobility domain

Internet of Medical Things
- Network architectures for disease management and assistive technologies for e-health and in-hospital scenarios
- Implanted and on-body networked smart objects
- Optimal and energy-efficient communication protocols for diagnostic, prognostic and recuperation IoT devices;
- Security and Privacy in Internet of Medical Things
- Experimental testbed and demo on recent advancements in the Internet of Medical Things

Wireless & softwarization
- Novel network architectures and communication protocols for software-defined mobile/wireless networks
- Network slice, service management, and multi-tenancy in softwarized networks
- Mobile Edge Computing and network softwarization
- Integration of Software-Defined Networking and Software-Defined Radio
- Testbed, use cases, and applications highlighting the potential of software-defined mobile/wireless networks

Other topics of interest

In addition, the organization team seeks research papers in any of the following areas:

- 5G and beyond
- Access Control
- Ad Hoc Network Applications and Architectures
- Ad Hoc Networks of Autonomous Intelligent Systems
- Aerospace communications
- Algorithmic Issues
- Analytic Methods and Modelling for Performance Evaluation
- Big Data Inspired Data Sensing
- Cyber-security in wireless communications
- Delay-Tolerant Networking
- Deterministic Networks
- Disaster Management
- Distributed Algorithms for Ad Hoc Networks
- Edge/fog computing
- Energy Efficiency
- Geometric Graphs
- Hybrid IoT-satellite networks
- Internet of Drones (IoD)
- Internet of Mobile Things
- Internet of Things (IoT)
- Location Discovery and Management
- Long-range IoT (LoRa, Sigfox, NB-IoT)
- Mobile Ad Hoc Computing Platforms
- Mobile Edge Computing
- Mobile Social Networking

- Mobility Handling and Utilization
- Nanoscale communication systems
- Network softwarization
- Optical wireless communications
- Precision Agriculture
- Processing and Networking Technologies Complexity and Computational Issues
- Protocol Optimization
- Prototype systems and real-world deployment experiences
- Quality-of-Service
- Routing Protocols (Unicast, Multicast, etc.)
- Satellite Communication
- Secure Services and Protocols
- Self-Configuration
- Sensor Networks
- Service Discovery
- Smart city and smart mobility
- Software Defined Networking and Network Function Virtualization
- Standardization
- Systems and Testbeds
- Timing Synchronization
- Unmanned Aerial Vehicle (UAV)
- Vehicular Networks
- Wireless Mesh Networks
- Wireless softwarization