

Special Issue on
Algorithmic Foundations of IoT

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Internet of Things (IoT) has quickly grown into one of the hottest areas in the field of wireless communication and mobile computing. IoT has broad coverage from personal networks or home networks to medium/large scale networks such as WAN/5G. IoT devices are heterogeneous and vary in terms of computation power, communication, and networking capability, as well as battery life. Despite their differences, IoT applications have the common fundamental problems that need to be addressed by the proper algorithms within certain contexts. For example, the algorithms of scheduling, optimization, flow control, and area coverage have a broad application in IoT for purposes such as resource access, networking, collaboration, and management.

The central theme of this special issue is to investigate novel algorithmic solutions for a broad range of IoT applications and highlight the algorithmic foundations that could serve for multiple similar applications so that researchers can efficiently investigate the state of the art in a field, link similar problems under different contexts, and find effective theoretical tools to build solutions for the specified applications.

This special issue encourages submissions of research articles reporting original work in theoretical research and review articles summarizing the algorithmic foundations that have been applied/investigated to solve similar problems in Internet of Things.

Potential topics include but are not limited to the following:

- ▶ IoT Resource Management Algorithms
- ▶ IoT Security and Privacy Algorithms
- ▶ IoT QoS Algorithms
- ▶ IoT Machine Learning based Algorithms
- ▶ IoT Communication Protocols and Algorithms
- ▶ IoT Algorithms for Dynamic Networks
- ▶ IoT Algorithms for Temporal Networks
- ▶ IoT Algorithms for Resilient Networks

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/wcmc/afiot/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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