



Computing

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Call for Papers

Special Issue on
**Intelligence-driven Mobile
 Networks for Smart Cities**

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Overview

Over the past decades, the technologies of artificial intelligence (AI) and machine learning (ML) have undergone a series of evolutionary innovation where these technologies have been promoting the quality of human life significantly. Learning the patterns and creating actions from the proper data could provide better and right decisions for many applications. By applying such techniques, the performance of networks could be refined to ensure scenarios including broad coverage, high capacity, high resource availability, extensive connectivity and key metrics including bandwidth, jitter, throughput, transmission delay and availability. This special issue is designed to foster the application and innovation of AI and ML technologies for mobile networking within 5G, MANETs, VANETs, wireless sensor networks and as well as other forms of networks. This is to explore a way of seamless and intelligence-driven communications for enabling evolution of the current networks and beyond, and thus, to support the sustainable smart cities.

Topics

Topics of interest include, but are not limited to, the following scopes:

- Intelligent 5G networks
- Industrial wireless networks
- Smart network planning and optimisation
- Data-based analysis of users (user group/user behaviour/user track etc.)
- Data-based analysis of network quality & performance & telecom value area
- Intelligence-driven mobile computing and wireless communications
- Intelligent mobile network protocols
- Data-based network Trust, security, and privacy

- Software defined networks
- Machine learning for mobile networking
- Network-based models and optimisation algorithms
- Data-driven social network analysis
- Internet of Things (IoT) and big data
- Intelligent vehicular networks
- Intelligent wireless sensor networks
- Smart Cloud, Fog and Edge
- Next-generation Internet
- Intelligent load balancing and traffic control

Tentative Schedule

Manuscript submission deadline:	February 15, 2020
Notification of acceptance:	June 15, 2020
Submission of final revised paper:	September 15, 2020
Publication of special issue (tentative):	4th Quarter, 2021

Major Guidelines

We invite the submission of original and high-quality manuscripts describing topics related to intelligence-driven mobile networks. Submissions of “extended versions” of already published works (e.g., conference/workshop papers) should be significantly extended with a relevant part of novel contribution (50%). A “Summary of Differences” between the submitted paper to this special issue and the former one must be included.

Submission Guidelines

All submitted manuscripts must be formatted according to *Computing's* instructions for authors which are available at <https://www.springer.com/607>. We will accept both LaTeX manuscripts (which must use Springer templates at <https://www.springer.com/607>) and word manuscripts (for which no templates are available).

Manuscript length

Please note that the page limit for Special Issue submissions differs from that of regular *Computing* submissions. Manuscripts submitted to the Special Issue should not exceed 20 pages. Submission that do not comply with this requirement are likely to be desk rejected without being reviewed.

Submission instruction

Manuscripts should be submitted using the online submission system at (<http://www.springer.com/607>).

When submitting a manuscript for this special issue, authors should take care to select ‘Intelligence-driven Mobile Networks for Smart Cities’.

A copy of the manuscript should also be emailed to the Guest Editor at the following email address: lzhao@sau.edu.cn