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## Special Issue on Design, Analysis and Implementation of Mobile Network Systems: New Challenges and Technologies

### Call for Papers

Recent years have seen great prosperity in the research field of mobile network systems, with the new advances on 5G networks, Internet of things, edge computing, social networking, crowdsourcing and etc. With the prosperity, new challenges are also faced with the ever-increasing volumes of mobile devices and demands on the network efficiency, functionalities, security, and management capabilities.

Facing those challenges, new tools and algorithms are needed for the design, analysis, and implementation of mobile network systems. For example, new techniques, from artificial intelligence and big data, offer a completely new and challenging opportunity to the researchers and practitioners.

This special issue aims at bringing together researchers and practitioners to continue proposing new visions, insights and solutions to the design, analysis and implementation of mobile network systems. We welcome recent advances in next generation communications and networking systems, algorithms, theories, protocols, applications, experiments, and testbeds.

In this special issue, potential topics include, but are not limited to:

- Big data and machine learning for networks
- Cross-layer optimization and control
- Energy efficiency in networks
- Edge and cloud computing
- Fault tolerance, reliability and survivability
- Information-centric networking
- Internet of things
- Mobile sensing and applications
- Mobility management and models
- Network measurement and analysis
- Network security and privacy
- Network virtualization

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly specify the “**Special Issue**” under your manuscript title. The research



field “**Special Issue – Design, Analysis and Implementation of Mobile Network Systems: New Challenges and Technologies**” should be selected during your submission.

Special Issue timetable:

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