

## Special Issue

# Advances in Network Automation and Self-Organizing Networks: Architecture, Algorithms, and Applications

### Message from the Guest Editors

This Special Issue will serve as a catalyst for research and innovation in network self-organization by identifying key challenges and opportunities for future development. We aim to bring together researchers and practitioners from academia, industries, and governments to share their latest findings and insights on this topic. We welcome original research papers that contribute to the state of the art in network automation and self-organizing networks. Potential topics include (but are not limited to) the following:

- Novel architectures for self-organizing networks;
- Advanced algorithms for topology adaptation and optimization;
- Distributed control and coordination in self-organizing networks;
- Artificial intelligence and machine learning for network management;
- Agent-based self-organizing and self-managing networks;
- Practical applications of self-organizing networks, such as smart cities and IoT deployments.

### Guest Editors

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### Deadline for manuscript submissions

31 December 2025



## Network

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## About the Journal

### Message from the Editor-in-Chief

*Network* provides full coverage of all topics of interest involved in the networking area. The purpose of this journal is to bring together researchers, engineers, and students from academia and industry to present novel ideas and solid research about the theoretical and practical aspects in the application domains of communications and networks. The primary focus of the journal is on the analysis, modeling, design, simulation, and implementation of networks. This journal will also serve to attract research concerning applying networking architectures and scenarios to emerging research topics such as Internet of Things (IoT), edge computing, distributed ledger technology, among others.

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### Editor-in-Chief

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