



Advances and Challenges in Future Networks

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Deadline for manuscript
submissions:

closed (15 January 2024)

Message from the Guest Editors

To address the importance of advancing future networks, this Special Issue aims to collect recent developments in communication systems that concentrate on novel optimization approaches, network designs, protocols, and technologies for future networking. Potential topics for inclusion in this Issue include, but are not limited to, the following:

- Advanced radio resource management for 5G and beyond;
- Mathematical optimization for wireless communications;
- Distributed, centralized, and hybrid algorithms for future networking;
- Wireless power transfer and energy harvesting techniques;
- Energy-efficient communication schemes;
- Distributed learning and game theory for wireless communications;
- Model-based and data-driven network controls;
- Deep reinforcement learning enabled intelligent networks;
- AI-driven optimization technologies;
- Recent advances on Vehicle-to-Everything networks;
- Novel designs of massive MIMO, MU-MIMO, Multi-RAT systems;
- Advanced beamforming and signal processing techniques;





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Message from the Editor-in-Chief

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