

Special Issue

Convergence of Edge Computing and Next Generation Networking

Message from the Guest Editors

Prospective authors are invited to submit original, high-quality contributions in areas including, but not limited to, the following:

- AI techniques for resource management and distributed control;
- Multi-scale, closed-loop control techniques for edge-cloud networks;
- Analysis of fundamental trade-offs in edge systems, including metrics such as energy efficiency, latency, overhead, cost, among others;
- Algorithmic approaches for end-to-end network slicing and SLA assurance;
- Approaches for cross-domain, cross-edge resource federation and trustworthy cooperation;
- Data management in decentralized and federated edge networks;
- Application acceleration use cases, including the metaverse;
- Novel use cases and applications for converged edge-cloud networks;
- Security analysis and solutions for decentralized edge networks;
- Data-driven techniques to enhance network security;
- Design and optimization of edge-cloud solutions for private networks;
- Beyond containerization workload management models;
- Large-scale testbed design and trial.

Guest Editors

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Dr. Gabriele Elia

Prof. Dr. Johann M. Marquez-Barja

Deadline for manuscript submissions

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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.

Editor-in-Chief

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