Emerging Networks and Blockchain Technology

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue welcomes high-quality contributions, from theory to practice, on technologies that fall at the intersection of blockchain and networking areas. Topics considered include, but are not limited to:

- Peer-to-peer network algorithms for blockchains;
- Networking and off-chain scaling solutions;
- Integrated consensus/networking protocols;
- Transport layer and coding techniques for blockchains;
- Fundamental limits of blockchains under network constraints;
- Scaling solutions for Web 3.0 applications;
- Networking for the metaverse;
- Role of the network in MEV mitigation;
- Networking in decentralized oracle networks;
- Market design and network economics in blockchains;
- Blockchains in emerging networking systems (e.g., edge/cloud computing, IoT, mobile, sensor and next-generation wireless networks);
- Blockchains and network privacy/security;
- Measurement studies of blockchain-based decentralized applications on the Internet;
- Network resource sharing using blockchains.

Special Issue

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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