

Special Issue

Application of Converged Network, Cloud Computing, and Big Data

Message from the Guest Editor

The rapid convergence of next-generation networks (5G/6G, SDN/NFV, network slicing), cloud-edge-endpoint computing, and large-scale data ecosystems is reshaping how intelligent services are designed, deployed, and secured. This Special Issue focuses on mathematically grounded and computationally effective methods that enable converged network-cloud-data systems to achieve reliability, scalability, privacy, and real-time intelligence across diverse application domains. We welcome contributions that develop new mathematical models (optimization, stochastic processes, control, graph and matrix methods), learning algorithms (ML/DL, federated and privacy-preserving learning), and systems techniques (resource scheduling, autoscaling, streaming analytics, provenance and trustworthy AI) for large, heterogeneous, and dynamic environments. Topics of interest include cloud-edge coordination, digital twins for networks, data governance and security in multi-tenant clouds, and AI-driven operations (AIOps/MLOps) under practical constraints (latency, cost, energy, compliance).

Guest Editor

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About the Journal

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).