Distributed Computer and Communication Networks

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editor

The rapid development of network technologies and the widespread implementation of computer networks would be impossible without the use and development of methods and algorithms of mathematical modeling of network technologies for comparative analysis, performance evaluation, and selection of optimal parameters of computer networks. Improving the performance of the existing networks and designing promising 5G/ 6G networks requires the integrated use and development of methods and approaches from various fields of science, including: queuing theory and reliability theory; optimal control theory and mathematical programming; theoretical foundations of electrical engineering and mathematical physics; and extremal graph theory, stochastic processes, and machine learning.

This Special Issue is devoted to the development of new mathematical models, methods, and algorithms from the fields of science listed above, aimed at researching both terrestrial all-optical networks and new-generation broadband wireless networks, including promising UAV-based networks.

Special Issue

Editor-in-Chief

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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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