

Special Issue

Performance Modelling and Optimization in Future Networks

Message from the Guest Editors

The proliferation of the skyrocketing number and types of mobile and IoT devices, coupled with large volumes of network traffic data which these devices generate, have brought great challenges to the traditional network systems to support emerging applications and services. To address these challenges issue, a series of novel technologies, such as software-defined networking (SDN), network function virtualisation (NFV), information-centric networking (ICN), artificial intelligence have been proposed or exploited. These evolutions will bring a series of benefits to future networks, such as reduced capital expenditure and operational expenditure for network management, shortened lifecycle of network innovation. However, the transformation of network intelligence, softerisation, virtualisation and cloudification is also married with the new challenge of how to efficiently plan, control and orchestrate network resources in large-scale, dynamic and complex operation environments. In this regard, this Special Issue focuses on the advances of the QoS modelling and resource optimisation in future networks.

Guest Editors

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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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