Performance Modelling and Optimization in Future Networks

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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), artifical intelligence have been proposed or exploited. These evolutions will bring a series of benefits to future networks, such as reduced captial 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.

Special Issue

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Message from the Editor-in-Chief

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