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Special Issue:
Network Resource Optimization with emphasis on Optical Networks

Contemporary telecom networks must carry large amounts of traffic and provide service to traffic streams with very much differentiated demands, not only in terms of bit-rate and service time but also of demanded Quality-of-Service parameters. In order for a network to effectively support traffic streams with demands from the range of kilobits per second to gigabits per second, or even to terabits per second, several types of networking technologies are found in the literature, mostly of optical networks, i.e., Optical Burst Transport Network, Optical Burst Switching Network, Optical Packet Switching Network and Optical Circuit Switching Networks.

Newly introduced types of network technologies are followed by a substantial increase in both the number and the complexity of problems that need to be resolved by theoreticians and teletraffic engineers. No matter what these development changes may bring, the essential tasks for traffic theory and network optimization theory remain the same:

- to determine and evaluate the relationship between the Quality-of-Service parameters, traffic intensity, and required/available resources;
- to develop effective and efficient methods for managing the node resources of communication networks.

These tasks prompt the scientists and engineers for developing algorithms and tools used for designing, analysis and optimization of systems and networks. The objective of this special issue is to bring together the state-of-the-art research contributions that address challenges in teletraffic theory and network resource optimization with emphasis on optical networks.

The topics of primary interest include, but are not limited to:

- Performance modelling and assessment of optical networks including passive optical networks
- Analytical models for optical switching nodes
- Traffic engineering for optical networks
- Optimization techniques for optical network resources
- QoS routing
- Networks and services planning and dimensioning
- Traffic forecasting and management

Papers submitted should be original and unpublished. The submitted papers should be formatted according to the IET Networks guidelines **(http://digital-library.theiet.org/journals/author-guide)**. All submitted papers will be peer reviewed according to the standards of the journal. Authors should submit a PDF version of their complete manuscript via **http://mc.manuscriptcentral.com/iet-net.**

Important dates:

Submission deadline:
30 Aug 2015

Publication Date:
May 2016

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