Special Issue

Optical Network Automation

Message from the Guest Editor

Next-generation optical transport networks will face more and more demanding requirements, not only from the point of view of higher traffic volumes but mainly from the perspective of the very nature of these traffic volumes. The evolution of internet usage (e.g., emergence of cloud services, growth of mobile communications, rise of HDTV over the internet) is yielding to a complexified traffic with an increasing access diversity and augmented traffic dynamicity. As a consequence, higher levels of network automation will be necessary to cope with these challenges. The scope of this Special Issue covers any kind of work helping to promote this shift from reactive autonomous to actual adaptive networks which monitor networks, extract knowledge from the monitoring data, and change hardware infrastructure and software control in accordance with this knowledge.

- Network automation
- Autonomous networks
- Network orchestration, management, and control
- Network monitoring and telemetry
- Artificial intelligence and machine learning applied to networks
- Software-defined networking
- Network function virtualization

Guest Editor

Dr. Ramon Aparicio-Pardo
CNRS I3S laboratory, Université Côte d'Azur, Nice, France

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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