Special Issue

Photonic Switching

Message from the Guest Editors

With the advent of photonic integration and the emerging architectural transformations that take place in several network segments, photonic switching has been gaining increased interest trying to identify the sweet spot where significant energy and performance benefits can be offered without, however, necessitating major changes in the overlying protocol stack. Photonic switch-based technologies and architectures appear as appealing candidates for a range of network sectors, starting from DataCenter environments in view of the intended resource disaggregation; proceeding through 5G network fronthauling, where ultra-low low-latency switching is targeted; to long-haul communications, where wavelength selective switches have been already established among the main technology vehicles. Photonic integration plays a major role in enabling on-chip photonic switch engines with low-energy and low-footprint capabilities. This Special Issue aims to consolidate the latest research in photonic switching along all possible network segments, reporting on the main advances on architectures and enabling switch technologies, including, of course, integrated switches.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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