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Optical Communications and Networking Solutions for the Support of C-RAN in 5G Environments

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Deadline for manuscript submissions:
closed (15 October 2018)

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Message from the Guest Editors

Dear Colleagues,

The widespread availability of mobile devices, such as tablets and smartphones, has led to a quick increase in mobile data traffic over the last few years. Demands for higher mobile networks capacity, increased data rates and for a larger number of simultaneously-connected devices are just few of the requirements posed in the evolution of radio access networks. Other fundamental factors are energy saving and cost of systems, latency, spectrum availability and spectral efficiency. Cloud Radio Access Network (C-RAN) or centralized RAN can be seen as a promising solution to deal the 5G requirements.

We invite investigators to submit original research articles in which solutions for the bandwidth saving in fronthaul networks are proposed and evaluated especially for the support of 5G traffic and system requirements. Potential keywords include, but are not limited to: Radio access network; 5G environment; CPRI; Virtualization; Ethernet; OTN; WDM.

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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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