



Advances on 5G and Beyond

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Message from the Guest Editors

The aim of 5G communication networks is to provide, on the same infrastructure, differentiated services to different sectors of society (vertical ecosystems), and to interconnect, over a common core network, various access networks, both wired and wireless. This infrastructure supports strong programmability, using virtualization technologies such as software-defined networks with services implemented by network function chains belonging to the control plane and user plane. Moreover, mobile edge computing, fog/edge computing, and cloud computing are fundamental elements in the 5G network architecture.

Taking into account the fact that we are at the beginning of the 5G era, with ongoing 5G projects in the installation phase around the world, in this Special Issue, we want to start a discussion around the challenges to be faced in the consolidation of technology, considering the ongoing experiences and what will be relevant to move forward with consistency in preparing communication infrastructures for the next generation.





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Message from the Editor-in-Chief

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