Special Issue

Radio Relay Networks and Microwave Techniques: Advances and Applications

Message from the Guest Editors

As mobile network capacity demands have increased rapidly, a large number of the operator's investments are directed towards the deployment of ultra-wide-band communications. Millimeter wave (mmW) facilitates the transmission of many subcarriers, offering the following advantages: huge bandwidth, narrow beam, high-quality transmission, etc. The rapid emergence of 5G networks has set a number of new planning problems which should be carefully analyzed to optimize the installation of new technologies and integrate them in the existing mobile network. Energy and cost efficiency are becoming increasingly important criteria in the design of 5G radio relay lines, especially for areas close to water surfaces, where there is pronounced fading, characteristic of radio relay paths that pass on the surface of the water.

Guest Editors

Dr. Grigor Mihaylov

Department of Telecommunications, University of Telecommunications and Post, 1700 Sofia, Bulgaria

Dr. Ivaylo Stoyanov

Department of Power Engineering, University of Ruse, 7004 Ruse, Bulgaria

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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