Special Issue

New Trends in Microwave/Millimeter Antennas/Filters: From Fundamental Research to Applications

Message from the Guest Editors

The rapid growth of wireless communication systems has led to a high demand for the design of microwave/millimeter components with properties of multiband, high-performance and ease to combination with other devices. Recently, 5G wireless communication networks have started to stimulate the development of beam-steering techniques. In comparison with previous technologies, including 4G wireless applications, 5G is shifting to higher frequencies, in turn obtaining wider bandwidths and providing a higher capacity. The use of mm-wave and sub-6 GHz bands has been proposed to open up services supporting networks of small/large cells facilitating high-capacity hotspot zones while increasing area efficiency. The printed antennas/filters have been considered to be the best candidate in 5G communication systems; they should be compact in size, have a wider bandwidth, high gain and be compatible with other system components. This Special Issue primarily targets the latest technology and developments in microwave/millimeter system components.

Guest Editors

Dr. Ahmed A. Ibrahim

Electronics and Communications Engineering Department, Minia University, Minia 61519, Egypt

Dr. Syed Muzahir Abbas

Electrical and Electronic Engineering, Macquarie University, Macquarie Park, NSW 2109, Australia

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

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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