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

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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# **Message from the Guest Editors**

Dear Colleagues,

The rapid growth of wireless communication systems has demand for high the design 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.

Dr. Ahmed A. Ibrahim Dr. Syed Muzahir Abbas *Guest Editors* 













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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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