Special Issue

Multi-Functional Integration Microwave Photonic Systems

Message from the Guest Editor

The use of optical devices and techniques to generate, manipulate, transport and measure high-speed radio-frequency (RF) signals, widely known as microwave photonics, has been the focus of intense research activities in recent years. The key advantages of microwave photonic systems over conventional electrical systems include broad bandwidth, reduced size, low loss and immunity to electromagnetic interference, and propel their applications in various areas (e.g., communications, radar, sensors and instrumentation). With the demand for improved cost effectiveness, microwave photonics have gradually evolved from single-function applications including filtering, frequency conversion, photonic beamforming and other signal processing to multi-functional integration capabilities. It is therefore timely to review the current state-of-the-art development to attract contributions from world leaders in their fields, with particular emphasis on major breakthroughs and outstanding challenges in multi-functional integration microwave photonics systems. Thank you very much!

Guest Editor

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