



Microwave Photonics II

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Message from the Guest Editors

"Microwave photonics" deals with photonics applied to radio frequency systems, as an enabling technology used for the generation, reception, processing and distribution of radio frequency signals before reaching the antenna or after being received from the antenna. Research around the world already demonstrated the huge potential of microwave photonics in radio frequency systems, due to its intrinsic large bandwidth, electro-magnetic interference robustness, low-loss distribution in optical fibers, and low power consumption and footprint if integrated photonics technologies are exploited.

Application fields of microwave photonics range from communications (i.e., 6G) and sensing (radar) in all aspects of our life (security, automotive, space, industry, environment monitoring, health, etc.).

New materials and technological platforms for photonic integration, new integrated photonic circuits and new microwave photonics systems must be developed in order to fully exploit the potential of microwave photonics and translate it into commercial products.

