Journal of
LIGHTWAVE TECHNOLOGY
An IEEE / OPTICA PUBLISHING GROUP Publication

Announcing an
IEEE/Optica Publishing Group
Journal of Lightwave Technology Special Issue on:

MICROWAVE PHOTONICS

This JLT special issue will provide an overview of recent advances in the field of Microwave Photonics, following the top conference in this discipline, namely, the "2026 IEEE International Topical Meeting on Microwave Photonics" (MWP2026, MWP2026 Matsue – The 2026 International Topical Meeting on Microwave Photonics in Matsue, Japan) held on 24-27 August in Matsue, Japan. It is open to all kinds of presentations (extended versions of plenary, invited, oral talks, and posters) in MWP'2026, as well as other submissions (not presented in MWP2026) in the field of microwave photonics and related disciplines.

Microwave photonics is concerned with the use of photonic devices, systems, and techniques for applications in microwave, millimeter, and THz wave engineering, and encompasses the development of high-speed photonic components for microwave system applications. The field is continuing to experience significant growth, fuelled by the recent interest and development in integrated microwave photonics and microwave/millimeter-wave photonics for 5G/6G applications and neuromorphic computing. Topics include (but are not limited to):

- High-speed MWP signal generators, modulators, and oscillators
- High-speed photomixers and optoelectronic converters
- LNOI (Lithium niobate on insulator) devices and components
- MWP and THz sub-systems, systems, and applications
- AI-assisted MWP systems and applications
- RoF technologies for B5G/6G mobile data communication, terrestrial communication, and aerospace systems
- Optical wireless and THz transmission systems and applications
- Sensing systems and applications including radar, lidar, and imaging systems
- Advanced signal processing systems and applications
- Novel device technologies for emerging systems and applications

As Guest Editors and on behalf of the Editor-in-Chief, we encourage you to submit your work for inclusion in this special issue. Accepted papers will appear in the Sept/Oct 2027 hardcopy issue with accepted papers posted online in Early Access within one week of author final file upload. Mandatory page charges of $260.00 per page are enforced for original contributions more than 8 pages and more than 10 pages for invited papers. Tutorial presenters will be invited to write articles that are up to 16 pages in length. The same mandatory fees apply to each tutorial paper more than 16 pages.

Submissions by website only: https://ieee.atyponrex.com/journal/ieee-jlt
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