

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 "2025 IEEE International Topical Meeting on Microwave Photonics" (MWP'2025, [International Topical Meeting on Microwave Photonics | Welcome to MWP 2025](#)) held on 14-17 October in Quebec city, Canada. It is open to all kinds of presentations (extended versions of plenary, invited, oral talks, and posters) in MWP'2025, as well as other submissions (not presented in MWP'2025) 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):

- Integrated microwave photonics and inverse designs
- High-performance microwave photonic signal sources
- Narrow-linewidth signal generation and ultra-precise time metrology
- Photonic microwave processing, sensing, and measurements
- Photonic-enhanced artificial intelligence (AI) computing techniques
- High-speed photomixers and optoelectronic converters
- THz device technology and system applications
- Radio over Fiber (RoF) for B5G/6G mobile data and terrestrial communication systems
- Optical wireless transmission systems and applications
- Applications of microwave photonics in aerospace and space systems
- High dynamic range microwave photonic systems
- AI-assisted microwave photonics
- Novel classical and quantum applications of microwave photonics

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 2026 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 7 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://iee.atyponrex.com/journal/ieee-jlt>

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