Special Issue

Progress in Hyperspectral Imaging and Future Prospects

Message from the Guest Editors

This Special Issue aims to showcase the latest advancements in hyperspectral imaging and explore the future landscape of this evolving field. We seek to gather a collection of high-impact papers that not only demonstrate state-of-the-art hyperspectral imaging technologies but also tackle the inherent challenges and propose innovative solutions. This platform will facilitate the exchange of ideas and foster collaborations that could steer the next wave of breakthroughs in hyperspectral imaging. Topics including, but not limited to, the following:

- Advances in multispectral, hyperspectral, and ultraspectral imaging systems;
- Fourier-transform- and Hadamard-transform-based hyperspectral imaging;
- Hyperspectral computed tomography and snapshot spectral imaging;
- Innovative computational approaches for hyperspectral data processing;
- Metasurface design and applications in hyperspectral imaging;
- Techniques for hyperspectral image super-resolution and denoising;
- Hyperspectral image unmixing, classification, and anomaly detection;
- Applications of hyperspectral imaging in agriculture, biomedicine, defense, geology, and environmental science.

Guest Editors

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Deadline for manuscript submissions

closed (1 February 2025)



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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peerreviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

Editor-in-Chief

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