Special Issue

Emerging Trends in Optical Imaging, Sensing and Wireless Communication Through Random Scattering Media

Message from the Guest Editors

Recent advancements in optical imaging, sensing, and wireless communication through random scattering media have opened remarkable avenues for innovation across various disciplines, including biomedical imaging, secure communication, and sensor technologies, which allowing unprecedented imaging depth, resolution, and novel communication strategies that utilize scattering-induced randomness.

Real-world applications of these technologies are rapidly emerging, notably in medical diagnostics, where enhanced deep-tissue imaging allows the earlier detection and better characterization of diseases. On the other hand, optical wireless communication through random media has secured communication protocols. Additionally, sensor technologies developed for random scattering media are becoming crucial in environmental monitoring, industrial inspections, and autonomous navigation systems.

This Special Issue aims to bring together the latest theoretical and experimental research and review articles focused on optical imaging, sensing, and wireless communication through random scattering media.

Guest Editors

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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 peer-reviewed 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.

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