

## Special Issue

# Optical Light Propagation and Communication Through Turbulent Medium

### Message from the Guest Editors

Optical communication through turbulent media presents significant challenges and opportunities for researchers in optics and photonics. This Special Issue explores the latest advancements, research findings, and innovative solutions in this field. We welcome submissions presenting numerical and experimental results from turbulent media such as atmosphere, water, marine waters, jet engine exhaust, and tissue; adaptive optics techniques for mitigating turbulence effects in optical communication, free-space and underwater optical communication systems in turbulent environments, and the associated challenges; novel approaches for improving the performance of optical communication through turbulence; and the applications of optical communication in 6G backhaul, satellite, defense, aerospace, and underwater exploration. The constantly growing body of research on optical light propagation and communication through turbulent media demonstrates the many opportunities for increasing its technological applications. We invite you to submit recent results on optical light propagation and communication through turbulent media to this Special Issue.

### Guest Editors

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### Deadline for manuscript submissions

closed (1 February 2025)



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## About the Journal

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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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