## **Special Issue**

### Recent Advances and Trends in Underwater Optical Wireless Communications and Networks

### Message from the Guest Editors

This Special Issue aims to provide a platform for the recent advances and innovations in UOWCs. You are cordially invited to submit original research articles or perspective reviews, including the recent trends and developments regarding the current state-of-the art UOWCs. The scope of this Special Issue includes, but is not limited to:

- Emerging UOWC technologies;
- New advances and challenges of UOWCs;
- Hybrid underwater optical wireless networks;
- Energy transfer and harvesting in Underwater Optical Wireless Systems;
- Internet of Underwater Things (IoUTs);
- Single-photon detector-based communication;
- Detector sensors, high-efficiency photodetectors for UOWC systems;
- Optical light sources for UOWC systems;
- Characterization of aquatic optical channels;
- Machine-learning-based algorithms for UOWC;
- Non-orthogonal Multiple Access techniques for UOWCs;
- Intelligent Reflecting Surface (IRS)-based UOWCs;
- Quantum-key distribution techniques;
- Standards, protocols, and recommendation for UOWCs;
- Experiments, trials, and testbeds for UOWCs;
- Fiber-wireless communication systems;
- Scattering and oceanic turbulence mitigation techniques;
- Oceanic turbulence modeling and simulation.

### **Guest Editors**

Dr. Syed Agha Hassnain Mohsan

- Dr. Yanlong Li
- Dr. Zou Zhou
- Dr. Khaled Rabie

### Deadline for manuscript submissions

closed (30 November 2023)



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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 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.

### Editor-in-Chief

Prof. Dr. Nelson Tansu School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).