

Special Issue

Neuromorphic Photonics

Message from the Guest Editors

This Special Issue will focus on recent advances in integrated photonic neuromorphic systems, discussing current as well as future challenges and outlining the scientific in addition to technological advances needed to meet these challenges. We welcome a variety of meaningful and valuable manuscripts on neuromorphic photonics, including those related to materials, devices, and hardware architectures for implementing computing, neural sensing, and alternative neuromorphic paradigms. Submissions involving emerging unconventional technologies as candidate solutions for neuromorphic technologies will also be considered. Topics include, but are not limited to:

- neuromorphic engineering
- photonics
- artificial intelligence
- brain-inspired computing
- synaptic plasticity
- optical neural networks

Guest Editors

Prof. Dr. Paulo André

Department of Electrical and Computer Engineering and Instituto de Telecomunicações, Instituto Superior Técnico, University of Lisbon, 1049-001 Lisbon, Portugal

Prof. Dr. Rute A. S. Ferreira

Physics Department, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

Deadline for manuscript submissions

closed (10 May 2025)



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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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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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