Special Issue

Silicon Photonic Memories and Computing

Message from the Guest Editors

Silicon photonics presents a novel paradigm that fits the bill for a high-speed and energy-efficient computing platform. Recent works in silicon photonics have shown its immense potential for high-performance computing, artificial neural networks, bio-inspired computing, and high-speed memories. This Special Issue welcomes original research articles and reviews. It welcomes important theoretical, simulation-based, as well as experimental contributions regarding photonic high-performance computing, photonic neuromorphic computing, photonic artificial synapses and neural networks, and next-generation photonic memories, as well as other topics related to silicon photonics. We look forward to receiving your contributions.

- photonic computing
- photonic neuromorphic computing
- photonic neural networks
- photonic memory
- artificial synapse

Guest Editors

Dr. Muhammad Shemyal Nisar

School of Engineering (Sino-British School), University of Shanghai for Science and Technology, Shanghai 200093, China

Prof. Dr. Linjie Zhou

State Key Lab of Advanced Optical Communication Systems and Networks, School of Electronic Information and Electrical Engineering (SEIEE), Shanghai Jiao Tong University, 800 Dongchuan Rd., Shanghai 200240, China

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

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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