Photonics in Switching and Computing

Mantova, Italy
PSC2023

26 - 29 September 2023 | Mantova, Italy

Overview

Photonics in Switching and Computing (PSC) addresses the synergy between photonic technologies, systems, and computing/networking architectures for datacom and telecom applications.
In particular, this year's PSC will highlight new topics related to photonics in computing, neuromorphic computing, and photonic quantum networks.

Technical Scope:

P1. Photonic Switching Devices, Systems, and Networks

1) Photonic Switching Devices and Building Blocks
2) Photonic Switching Systems and Functionalities
3) Photonic Switching Networks and Controls

P2. Photonics for Computing and Deep Learning Applications

1) Photonics for Innovative Computing
2) Photonic Technologies for Datacenter and High-Performance Computing
3) Photonic Networks for Computing and Big Data Applications

General Co-Chairs:

- ***Antonella Bogoni***, *CNIT, Italy*
- ***Nicolas Fontaine***, *Nokia Bell Labs, USA*
- ***Hideki Tode***, *Osaka University, Japan*

Technical Co-Chairs:

- ***Roberto Proietti***, *Politecnico di Torino, Italy*
- ***Volker J. Sorger***, *G. Washington University, USA*
- ***Motoharu Matsuura***, *University of Electro-Communications, Japan*

Venue

MaMu
Mantova Multicentre
ITALY

www.psc2023.org

Submission deadline:
June 15, 2023

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Plenary Speakers:

Michal Lipson
Columbia University, USA
"The Revolution of Silicon Photonics"

Kenichi Kitayama
Osaka University, Japan
"Photonic Accelerator and "Small-world network"-based Reservoir Computing"

Lorenzo Pavesi
University of Trento, Italy
"Neuromorphic silicon photonics for computing and thinking"

Daniel Perez Lopez
Universidad Politécnica de Valencia, Spain
"Programmable photonics: from foundations to arbitrary switching applications."

Best Student Paper Award for writing a remarkable paper and making an outstanding presentation

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IEEE Photonics Society ITALY CHAPTER

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