Programmable Photonics and their Applications Workshop

25th International Conference on Transparent Optical Networks (ICTON 2025)
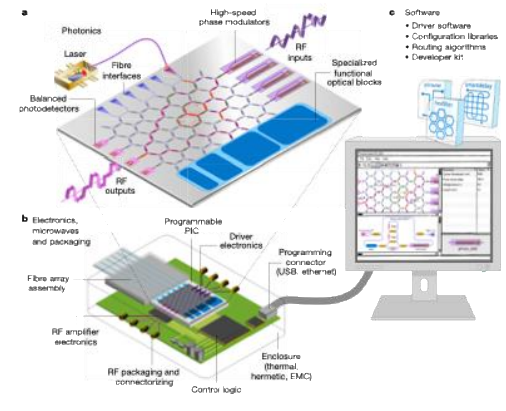Barcelona, Spain | July 6th to 10th, 2025

Introduction

Join us at the inaugural **"Programmable Photonics and their Applications"** workshop, part of ICTON 2025, where leading experts in programmable photonic integrated circuits (PICs) will gather to share the latest advancements and applications. This multi-disciplinary event fosters collaboration and knowledge exchange among researchers, engineers, and industry professionals.

Workshop Overview

Objective: Discuss the latest developments and applications of programmable PICs, focusing on field programmable photonic gate arrays (FPPGAs), novel architectures, and emerging applications.

Topics:

- Novel Hardware Architectures for Programmable PICs
- Optimization and Control Algorithms for Programmable PICs
- Scalable Programmable PICs
- Software Modelling for Programmable PICs
- Optimization and Control Algorithms for Programmable PICs
- Programmable PICs for Transparent Optical Networking
- Programmable PICs for Data Center Interconnects and Switching
- Programmable PICs for Computing and Artificial Intelligence
- Programmable PICs for 5G and Beyond Applications
- Programmable PICs for Emulation of Artificial Materials

Program Highlights

- **Invited Talks**: Hear from renowned experts covering all aspects of programmable photonics.
- **Technical Presentations**: Engage with cutting-edge research and industry developments.
- **Interactive Discussions**: Participate in lively debates and networking opportunities to advance collaboration and innovation.

Organisers

- **Prof. J. Capmany**, Universitat Politècnica de València (UPV), Spain
- **Prof. W. Bogaerts**, University of Ghent, Belgium
- **Prof. I. Tomkos**, University of Patras, Greece

Registration Details: https://icton2025.upc.edu/
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