

SUNDAY 08:30 – 17:50

Integrated Microwave Photonics

Chair: Chris Roeloffzen¹Co-Chair: Christos Tsokos²¹LioniX International, ²Institute of Communication and Computer Systems**Room: Glow****WS07**
EuMC

Join us for an insightful workshop exploring the transformative potential of integrated microwave photonics. The morning session, "Illuminating the Future: Exploring Applications and Systems of Integrated Microwave Photonics," delves into cutting-edge innovations that leverage photonic technologies to address challenges in communication, sensing, and signal processing. In the afternoon, "Building the Foundation: Photonic Integration Platforms and Enabling Key Components," we focus on the foundational technologies driving photonic integration, highlighting photonic integration circuit (PIC) platforms, materials, and components essential for next-generation solutions. This workshop offers a comprehensive view of the field, fostering dialogue among researchers, engineers, and industry

professionals shaping the future of microwave photonics.

PROGRAMME

RF Photonic Front-end Technologies for THz Communications

Andreas Stohr¹¹Microwave Photonics GmbH

Microwave Photonic for satellite communication payloads

Kasia Balakier¹¹European Space Agency

A broadband 1-40GHz RF receiver based on hybrid integrated photonics for agile signal identification

Paolo Ghelfi¹¹CNIT, Pisa Italy

Programmable and Reconfigurable Photonic Circuits for Signal Processing

Wim Bogaerts¹¹Photonics Research Group IMEC - Ghent University

Photonic integration platforms and control electronics solutions for high-performance microwave photonics systems

Christos Kouloumentas¹¹Optagon Photonics

Programmable Microwave Photonic Signal Processor in the Thin-Film Lithium Niobate Platform

David Marpaung¹¹Nonlinear Nanophotonics group - University of Twente

Breaking the Bottleneck: High-Volume Manufacturing of TFLN PICs for Telecom & Datacom

Amir Ghadimi¹¹Lightium

Millimeter-wave phase arrays enabled by photonic integrated circuits

Guillermo Carpintero¹¹LeapWave Technologies