

Room F (Sicily), 2F

Chair: Il-Sug Chung (UNIST)

Mo1F

June 29 (Mon), 2026

Advances in Photonics Integrated Circuits

13:00-14:30

Mo1F-1 Tutorial 13:00-14:00



Silicon Photonic Integrated Circuits with Asymmetry

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Silicon photonic integrated circuits have been developed successfully by integrating various passive and active photonic devices. In particular, this tutorial gives a review and discussion on asymmetric silicon photonics which breaks the structural symmetry, including passive and active devices as well as large-scale silicon photonic chips in various applications.

Mo1F-2 Invited 14:00-14:30

Integrated Lithium Niobate Microwave and Terahertz Photonics

Cheng Wang
City University of Hong Kong

I will discuss our recent efforts on developing a thin-film lithium niobate (TFLN) microwave photonic platform that simultaneously features efficient, linear, and high-speed electro-optic modulators for high-fidelity microwave-optic conversion, low-loss functional photonic networks that can be configured for a variety of signal processing tasks, as well as large-scale, low-cost manufacturability. I will first discuss a variety of high-performance device-level building blocks as well as ultra-compact inverse-designed photonic elements. Building upon this platform, we further demonstrate high-performance microwave and terahertz photonic system-level applications.