

Room E (Sydney), 2F

Chair: Kyoungsik Yu (KAIST)

We2E

July 1 (Wed), 2026

Scalable Silicon Photonics Platforms

13:15-14:45

We2E-1

13:15-13:30

Compact and Low-Loss Silicon Nitride Rib Waveguide Bends Using Width-Modulated NAdjustable Trajectories

Ja-Hyun Ku¹, Hui-jae Cho¹, Ga-Young Park¹, Kap-Joong Kim², Byung-Seok Choi², Jong-Bum You¹

¹National NanoFab Center, ²Electronics and Telecommunications Research Institute

We2E-2

13:30-13:45

Compact Silicon Nitride Edge Coupler Optimized via Covariance-Matrix-Assisted Particle Swarm Optimization

Zhengyang Li, Yichen Zhang, Lei Zhang

Beijing University of Posts and Telecommunications

We2E-3

13:45-14:00

Near-Athermal Silicon Nitride (De)multiplexer with a Wavelength Shift of ~2 pm/K

Shiqi Zhang, Donghao Li, Luyang Liu, Haojie Xue, Yichen Zhang, Lei Zhang

Beijing University of Posts and Telecommunications

We2E-4

14:00-14:15

Effective Depth and Nonlinearity in an Integrated Photonic Recurrent Network

Yongdi Zhang¹, Qishen Liang¹, Zichao Zhao¹, Haoran Ma¹, Baojie Hou¹, Yawen Tu¹, Bin Zhang^{1,2}, Bangmin Gong¹, Huihui Zhu¹, Yuehai Wang¹, Jianyi Yang^{1,3}

¹Zhejiang University, ²Zhejiang Lab, ³Jinhua Institute of Zhejiang University

We2E-5 **Invited**

14:15-14:45

From Sensing Applications to 200Gbps/lane Silicon Photonics Using 300mm Platforms

Frédéric Boeuf, Louise-Eugenie Bataille, Leopold Viroth, Lorenzo Lazzari, Stephane Monfray, Eva Kempf, Sebastien Cremer

STMicroelectronics