

Room E (Sydney), 2F

Chair: Zhenzhou Cheng (Tianjin University)

Tu3E

June 30 (Tue), 2026

Reconfigurable & Programmable Photonics

13:15-14:45

Tu3E-1 Invited 13:15-13:45

An Integrated Platform for Ultra-Low-Power Reconfigurable Silicon Photonics Leveraging Wafer-Scale Vacuum Sealed MEMS

August Djuphammar¹, Pierre Edinger¹, Yihang Chen¹, Yingying Li¹, Gaehun Jo¹, Cleitus Antony², Simon J. Bleiker¹, Sofie Janssen³, Selva Rajmohan³, Frank Niklaus¹, Wim Bogaerts^{3,4}, Kristinn B. Gylfason¹

¹KTH Royal Institute of Technology, ²Tyndall National Institute of Technology, ³Interuniversity Microelectronics Centre, ⁴Ghent University-imec

Tu3E-2 Invited 13:45-14:15

Reconfigurable Photonics based on Phase Changes Materials

Ying Sun, Yiting Yun, Kai Xu, Weiquan Wang, Hongtao Lin
Zhejiang University

Tu3E-3 14:15-14:30

Photonic Tensor Core on a Silicon Photonic MEMS

Seungmin Chae¹, Youngjae Jeong², Dong Uk Kim¹, Giyeon Shin², Gimok Byun², Jae Hyeon Kim¹, Young Jae Park¹, Man Jae Her¹, Jinyoung Cha¹, Hojune Lee¹, Jeongmook Lim³, Taein Kim¹, Dongyoun Mah¹, Minjae Kim¹, Kyoungsik Yu², Sangyoon Han¹

¹Daegu Gyeongbuk Institute of Science and Technology, ²Korea Advanced Institute of Science and Technology

Tu3E-4 14:30-14:45

Scalable Programmable Silicon Photonic MEMS on a Commercial Silicon Photonics Foundry

Jeongmook Lim¹, Dong Uk Kim¹, Jae Hyeon Kim¹, Youngjae Jeong², Gimok Byun², Giyeon Shin², Young Jae Park¹, Man Jae Her¹, Hojune Lee¹, Jinyoung Cha¹, Seungmin Chae¹, Minjae Kim¹, Dongyoun Mah¹, S Gunasagar³, Jasper Leong³, Ramadas Nambatyathu³, Robin Chao³

¹Daegu Gyeongbuk Institute of Science and Technology, ²Korea Advanced Institute of Science and Technology, ³CompoundTek Pte Ltd