



OSA (Virtual) Traveling Lecturer

October 21, 2:00pm Webex Event

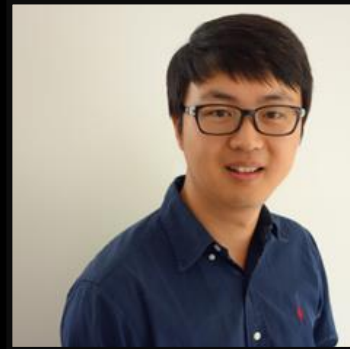
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Event Number: 120 373 0927

Event Password: OSALecturer

Speaker: Dr. Di Liang

A versatile integrated photonic platform for future communication, sensing and computing



Abstract:

Microelectronics and Photonics are two major world-changing technologies in solid-state physics. A few choices on different semiconductor materials over half century ago started two seemingly parallel paths for them to revolute the modern era. Opportunities and necessity to develop silicon photonics made them come across each other around onset of the new millennium. Its profound impact is beyond currently dominant transceiver applications and expanding to emerging applications like sensing, computing, etc. This talk will give an overview of silicon-based photonic integration R&D in HP Labs, and discuss recent progress to develop an innovative platform with volume production promise and versatile application perspective.

About the Speaker:

Dr. Di Liang is currently a senior research manager at Hewlett Packard Labs in Hewlett Packard Enterprise. He leads the advanced R&D of silicon and compound semiconductor integrated photonics for high-performance computing and emerging applications. His research interests include silicon and III-V photonics, heterogeneous and monolithic integration, and nanofabrication technology. He has authored and coauthored over 200 journal and conference papers and 5 book chapters with over 5000 google citations. He was granted by 45 patents with another 45+ pending. He received his B.S. degree in Optical Engineering from the Zhejiang University, China, and Ph.D. degree in Electrical Engineering from the University of Notre Dame, USA. He is currently an associate editor of OSA Photonics Research and IEEE Journal of Quantum Electronics. He is a Fellow of OSA and a senior member of IEEE.