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Silicon Photonics Technology Requirements for Datacenter Interconnects

Lieven Verslegers
Google
lievenv@google.com

Abstract

We will provide an overview of Google's datacenter network deployments. We will outline technology requirements for datacenter interconnects, and compare and contrast silicon photonics and other interconnect technologies. We will identify opportunities for development to address current performance gaps.

Bio

Lieven Verslegers is a Staff Hardware Engineer at Google Technical Infrastructure, where his current focus is on interconnect technologies for data center applications. Prior to Google, he was at Luxtera, where he worked on the development of silicon photonics technology. He received the B.S. and M.S. degrees in Electrical Engineering from Ghent University, and his Ph.D. in Electrical Engineering from Stanford University.