## **Optical Networks and Edge Computing**

David Piehler and Raja Jayakumar

Dell Technologies, 5450 Great America Parkway, Santa Clara, California 95054 david.piehler@dell.com

**Abstract:** Explosive growth in the number of edge devices highlights the need for distributed compute resources in the data path from edge to the network core. We discuss new applications that bring the need for lower latency, higher bandwidth, autonomous operation, and reduced overall cost compared to the (centralized) cloud computing model, as well as the evolving optical interconnection options that make effective solutions feasible. © 2022 The Authors.