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Abstract for an Invited Paper
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Compacting high-end computing systems with silicon photonic interconnects

ASHOK V. KRISHNAMOORTHY, Sun Microsystems

The talk will present a design of a microsystem that utilizes silicon photonic interconnects to enable a highly compact supercomputer-scale system. It will describe and justify single node and multimode systems interconnected with wavelength-routed optical links, and will analyze their benefits versus electrically connected systems.