

# Tutorial Speakers

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## Systems and Subsystems

### S1: Datacom Subsystems and Systems

S. J. Ben Yoo, *University of California Davis, USA*

**Photonic Switching in Data Centers and Computing Systems**

### S2: Subsystems for Transmission

Vivian Xi Chen, *Nokia Bell Labs, USA*

**Components, DSP, and Subsystem Design for Ultra-High-Speed Optical Transceivers**

Xiang Zhou, *Google LLC, USA*

**IM-DD vs. Coherent in Datacenters: A Revisit in 2025**

### S3: Transmission Systems

Alexei Pilipetskii, *SubCom LLC, USA*

**Power-Limited Submarine Transmission: Cable Design, Amplification Strategies and Capacity Limits**

Benjamin Puttnam, *NICT, JAPAN*

**Transmission System Technologies for Large-Scale Multiplexing in Wavelength and Space**

### S4: Optical Processing, Microwave Photonics and Fiber-sensing

Peter McMahon, *Cornell University, USA*

**Optical Computing: Principles, Examples, and Prospects**

### S5: Free-space (FSO), Ranging (LiDAR), and Radio-over-Fiber (RoF)

Chi-Wai Chow, *National Yang Ming Chiao Tung University, TAIWAN*

**Future Perspectives on Optical Wireless Communication - Optical Beam Shaping, Multiple Access and Integration**