

<b>Session Title:</b>	<b>[We3H] Applications of Photonic Signal Processing</b>
<b>Session Date:</b>	<b>August 7 (Wed.), 2024</b>
<b>Session Time:</b>	<b>15:45-17:15</b>
<b>Session Room:</b>	<b>Room H (117)</b>
<b>Session Chairs</b>	<b>TBA</b>

**[We3H-1] [Invited] 15:45-16:15**

**Biomimetics in Photonic Systems**

Mable P. Fok (Univ. of Georgia, USA)

**[We3H-2] 16:15-16:30**

**A High-speed Stable Polarization Encoder for Quantum Key Distribution**

Ju Li, Zexu Wang (Beijing Univ. of Posts and Telecommunications, China), Changlei Wang (China Academy of Electronics and Information Tech., China), Feifei Yin, Kun Xu (Beijing Univ. of Posts and Telecommunications, China), Huaxing Xu (China Academy of Electronics and Information Tech., China), and Yitang Dai (Beijing Univ. of Posts and Telecommunications, China)

**[We3H-3] 16:30-16:45**

**Parallelization of Temporally Multiplexed Matrix Vector Multiplication with Rayleigh Backscattering in an Optical Fiber via Wavelength-division Multiplexing**

Daichi Hitotsumatsu, Kaoru Minoshima, and Naoya Kuse (Tokushima Univ., Japan)

**[We3H-4] 16:45-17:00**

**Highly Stable and Low-Phase-Noise Chirped Waveforms Generation Based on an Injection-Locked and Actively Stabilized Opto-Electronic Oscillator**

Qianlong Zhang, Jiangyi Tong, Bin Wang, and Weifeng Zhang (Beijing Inst. of Tech., China)

**[We3H-5] 17:00-17:15**

**Single-Wavelength Multi-Tap Time Delay Line over a Multimode Fibre Towards Microwave Photonic Filters**

Shouju Liu, Yuanli Yue (Univ. of Kent, UK), Mingzhu Shi (Tianjin Normal Univ., China), Ailing Zhang (Tianjin Univ. of Tech., China), and Chao Wang (Univ. of Kent, UK)