

EXAT 2023 Technical Program

Day 1: Wednesday, 17 May

09:00-09:15 Opening Remarks
Kunimasa Saitoh (EXAT 2023 General Chair, Hokkaido University)

Session W1 (09:15-10:45) Presider: Masataka Nakazawa	
09:15-10:15 W1.1 Plenary	Roland Ryf (Nokia Bell labs) Space Division-Multiplexing: The road to commercialization
10:15-10:45 W1.2 Invited	Ben Puttnam (NICT) Wideband, High-Throughput and Long Distance Transmission in SDM Fibers

10:45-11:15 Break

Session W2 (11:15-12:15) Presider: Yuichi Matsushima	
11:15-11:45 W2.1 Invited	Mikael Mazur (Nokia Bell Labs) Real-Time MIMO DSP for Coupled-Core Fiber Transmission
11:45-12:15 W2.2 Invited	Daiki Soma (KDDI Research, Inc.) Multi-core Fiber Transmission with Essential Optical Components for Realizing Large-capacity Optical Submarine Cable Systems

12:15-13:15 Lunch

Session W3 (13:15-14:15) Presider: Masatoshi Suzuki	
13:15-13:45 W3.1 Invited	Chongjin Xie (Alibaba Infrastructure Service, Alibaba Cloud) Scaling Optical Interconnects for Hyperscale Data Center Networks
13:45-14:15 W3.2 Invited	Yun C. Chung (KAIST) Multiplexing Technologies for Next-Generation Datacenter Networks

14:15-15:45	Poster Session
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16:00-21:00 Reception (Matsue Vogel Park)

Day 2: Thursday, 18 May

Session T1 (09:00-10:30) Presider: Masanori Koshiba	
09:00-10:00 T1.1 Plenary	Francesco Poletti (University of Southampton) Dreams of a Hollow Future in Optical Communications
10:00-10:30 T1.2 Invited	Benyuan Zhu (OFS Laboratories) Hollow-Core-Fiber Cables for Low Latency Communications

10:30-11:00 Break

Session T2 (11:00-12:30) Presider: Masaharu Ohashi	
11:00-11:30 T2.1 Invited	Pierre Sillard (Prysmian) Simple Multi-Core Fiber Fabrication Method
11:30-12:00 T2.2 Invited	Masanori Takahashi (Furukawa Electric) Ultralow-Loss Uncoupled Multicore Fiber
12:00-12:30 T2.3 Invited	Leslie A. Rusch and Sophie LaRochelle (Univ. Laval) Ring-Core Fibers for OAM Mode Propagation

12:30-13:30 Lunch

Session T3 (13:30-15:00) Presider: Yasuo Kokubun	
13:30-14:00 T3.1 Invited	Kohki Shibahara (NTT Corporation) Long-Haul Transmission over Standard-Cladding Weakly-Coupled SDM Fibers
14:00-14:30 T3.2 Invited	Chiara Lasagni (Università degli Studi di Parma) The Ergodic GN Model for SDM Transmission Systems
14:30-15:00 T3.3 Invited	Luca Palmieri (Univ. Padova) Distributed Characterization of Coupled and Uncoupled Multicore Optical Fibers

15:00-20:00 Excursion & Banquet (Adachi Museum of Art and Yuushien Garden)

Day 3: Friday, 19 May

Session F1 (09:00-10:30) Presider: Yoshinari Awaji	
09:00-09:30 F1.1 Invited	Leif K. Oxenløwe (Technical University of Denmark) Spatial Distribution of Data Capacity as a Means to Reduce Number of Repeaters in ULH Links
09:30-10:00 F1.2 Invited	Takayoshi Mori (NTT Corporation) Planar Lightwave Circuit Device for Spatial Mode Multiplexing Transmission
10:00-10:30 F1.3 Invited	Yves Jaouën (Telecom Paris, Institut Polytechnique de Paris) EFFLAM Project: from 12-Core Erbium-Ytterbium Fiber Amplifier Design to SDM Transmissions Applications

10:30-11:00

Break

Session F2 (11:00-12:00) Presider: Yutaka Miyamoto	
11:00-11:30 F2.1 Invited	Ezra Ip (NEC America) Future Application of Fiber Infrastructure – From Data Transmission to Fiber Sensing
11:30-12:00 F2.2 Invited	Peter Andrekson (Chalmers University of Technology) High-Speed Optical Communication with Very Low Received Signal-to-Noise Ratio

12:00-12:05

Closing Remarks

Motoaki Yasui (Vice President, NICT)