

Session Title	Poster Session 1	Session Code	P1
Date and Time	July 4 (Wed.) / 13:00-14:00		
Place	Lobby, ICC Jeju 3F		

P1-01

SC1_1004

Hybrid Multiplexing over FlexE Group

Sen Zhang, Qiwen Zhong, Min Zha, and Tianjian Zuo
Huawei Technologies Co., Ltd., China

P1-02

SC1_1006

Load-Balancing Dynamic RSA of Joint Multicast and Anycast with Flexible Window in Elastic Optical Networks

A. Rong Ma, B. Shan Yin, C. Bao Wang, D. Yidong Chen, and E. Sha
Beijing Univ. of Posts and Telecommunications, China

P1-03

SC1_1007

Web-based Remote Management System for Optical Switch in AWG-STAR with Loopback Function

Seiya Aso, Yudai Tomioka, Osanori Koyama, Takumi Niihara, Yuki Ogura, and Makoto Yamada
Osaka Prefecture Univ., Japan

P1-04

SC1_1010

Physical Impairment Aware Routing Scheme with MIMO Equalization in SDM Network

Shijia Guo, Shan Yin, Rong Ma, Bao Wang, and Shanguo Huang
Beijing Univ. of Posts and Telecommunications, China

P1-05

SC1_1014

Polarization-Multiplexed Rolling Shutter Demodulation in Mobile-Phone Based Visible Light Communication

Yuan-Chia Chang¹, Chia-Wei Chen¹, Yen-Chun Liu¹, Ruei-Jie Shiu¹, Chi-Wai Chow¹, and Chien-Hung Yeh²
¹Nat'l Chiao Tung Univ., Taiwan, ²Feng Chia Univ., Taiwan

P1-06

SC1_1016

Gate Shrunk Time Aware Shaper: Dynamic Shaping Control on White Box Switch

D. Hisano¹, K. Nishimura², Y. Nakayama¹, T. Kubo¹, M. Hirota², Y. Fukada¹, J. Terada¹, and A. Otaka¹
¹NTT Corp., Japan, ²Fujitsu Ltd., Japan

P1-07

SC1_1031

Simultaneous Wavelength and Format Conversion in Data Center Interconnect Node for NFV/SDN Optical Network based on FWM in SOA

Yueying Zhan¹, Danshi Wang², Min Zhang², and Shaojun Wu¹
¹Chinese Academy of Sci., China, ²Beijing Univ. of Posts and Telecommunications, China

P1-08

SC1_1043

Load Balance based Deflection Routing for Optical Burst Switching

Jiahui Kang¹, Yongli Zhao¹, Huibin Zhang¹, Wei Wang¹, Jinyu Guo¹, Jie Zhang¹, Chuan Liu², Gangsong Dong³, and Qi Shao³
¹Beijing Univ. of Posts and Telecommunications, China, ²Global Energy Interconnection Research Inst. Co., Ltd., China, ³State Grid Henan Information&Telecommunication Company, China

P1-10**SC1_1060****Sextuple Frequency Two-Tone Signal Generation using Cascaded Mach-Zehnder Modulators for Multiple Harmonics Cancelling**

Takuya Nishiaki, Kazunori Osato, and Moriya Nakamura
Meiji Univ., Japan

P1-11**SC1_1068****Traffic Grooming Approaches in Flexible Bandwidth Optical Networks with Distributed Data Centers**

Jie Zhang¹, Yu Lei¹, Bowen Chen¹, Mingyi Gao¹, Lian Xiang¹, and Qianwu Zhang²
¹Soochow Univ., China, ²Shanghai Univ., China

P1-12**SC1_1070****FC-AE-1553 Switching Network Supporting IP Services based on Parallel Scheduling Strategy**

Zhuofu Zhong¹, Liqian Wang¹, JingJing Li¹, Xue Chen¹, Yueying Zhan², Suzhi Cao², and Shaojun Wu²
¹Beijing Univ. of Posts and Telecommunications, China, ²Chinese Academy of Sci., China

P1-13**SC1_1072****Experimental Demonstration of Simple RS Code based PON-FEC for 25 Gbps/wavelength Optical Access**

Seung Hwan Kim and Hwan Seok Chung
ETRI, Korea

P1-14**SC1_1078****Micro-Optics based Polarization Decoding Module for Free-Space Quantum Key Distribution**

Byung-Seok Choi, Haesin Ko, Joong-Seon Choe, Kap-Joong Kim, Chun Ju Youn, Jong-Hoi Kim, and Yongsoon Baek
ETRI, Korea

P1-15**SC1_1079****Sidelobe Suppression Improvement in Microwave Photonic Filter via Time-to-Frequency Mapping**

Minje Song, Sungil Kim, Jungmin Park, Joontae Ahn, Jaesik Sim, Sangpil Han, and Minhyup Song
ETRI, Korea

P1-16**SC1_1083****Position Tracking based on AOA and MIMO Combined Technique with Visible Light**

Kaoru Kosai, Yuki Hirata, Tsubasa Furuta, Takanori Matsuzaki, and Wataru Imajuku
Kindai Univ., Japan

P1-17**SC1_1086****A Dynamic Cryptography Door Lock System based on Visible Light Communication**

Shuyan Chen¹, Jianhua Shen², Xiaodi You², Jian Chen², and Changyuan Yu³
¹Nanjing Univ., China, ²Nanjing Univ. of Posts & Telecommunications, China, ³The Hong Kong Polytechnic Univ., China

P1-18**SC2_1002****Transmission of 2.5Gb/s PM-BPSK over 606.5km with a Span Loss in Excess of 101dB**

Jian Xu¹, Liyan Huang¹, Jiekui Yu¹, Ming Li¹, Min Xiang¹, Weihua Li², Zhen Wu², and He Lu
¹Accelink Technologies Co. Ltd, China, ²State Grid Information and Telecommunication Branch, China

P1-19**SC2_1004****A Machine Learning Enabled Optical IMDD SDM OFDM System**

Q. W. Zhang, M. Liu, H. Zhou, F. Wang, J. Chen, B. Y. Cao, Y. X. Song, J. J. Zhang, Y. C. Li, and M. Wang
Shanghai Univ., China

P1-20**SC2_1007****Experimental Demonstration of SPM Compensation based on Digital Signal Processing using a Complex-Valued Neural Network for 40-Gbit/s Optical 16QAM Signals**Yuta Fukumoto¹, Shotaro Owaki¹, Takahide Sakamoto², Naokatsu Yamamoto², and Moriya Nakamura¹¹Meiji Univ., Japan, ²Nat'l Inst. of Information and Communications Tech., Japan**P1-21****SC2_1008****Nonlinear Distortion and Phase-Noise Compensation using a Polarization-Multiplexed and Intensity-Modulated Pilot-Carrier**

Noriki Sumimoto, Yuya Takanashi, and Moriya Nakamura

Meiji Univ., Japan

P1-22**SC2_1009****Performance Evaluation of Twin-SSB Methods with Detection using a Electric Butterfly Operation**

Yuya Takanashi, Shogo Kashiwagi, Damia Dalilah Binti Zainudin, and Moriya Nakamura

Meiji Univ., Japan

P1-23**SC2_1023****Signal Degradation Factor of a Correlation Receiver with an Analog Integration Circuit**

S. Nakata, Y. Miyoshi, H. Kubota, and M. Ohashi

Osaka Prefecture Univ., Japan

P1-24**SC2_1024****Performance Evaluation of Residual Dispersion Equalization by an Optical Correlation Receiver**

K. Morimoto, Y. Miyoshi, H. Kubota, and M. Ohashi

Osaka Prefecture Univ., Japan

P1-25**SC2_1029****Computational-Complexity Comparison of Artificial Neural Network and Volterra Series Transfer Function for Optical Nonlinearity Compensation**

Yuta Otsuka, Yuta Fukumoto, Shotaro Owaki, and Moriya Nakamura

Meiji Univ., Japan

P1-26**SC2_1031****10-GSample/s, 15-level Optical Quantization using Frequency Chirp in a Quantum-Dot SOA**

Takuya Okada, Hiroki Hoshino, and Motoharu Matsuura

The Univ. of Electro-Communications, Japan

P1-27**SC2_1032****Condition for Gaussian-Schell Model Beam to Maintain the Polarization Property in Wireless Optical Communication**

Ziyang Li, Jiankun Zhang, and Anhong Dang

Peking Univ., China

P1-28**SC2_1038****Nonlinear Transmission Characteristics of DWDM Coherent Optical Signal through Multiple Dispersion-Shifted Fiber Spans**

Yasuhiro Aoki, Xin Zhang, and Qian Tong

Saitama Inst. of Tech.

P1-29**SC2_1050****Aero-Aqua Optical Transmission System with Retroreflector and Self-Homodyne Receiver**Wataru Imajuku¹, Kaoru Kosai¹, Yuki Kakushi², Yoshihiko Hibino², Ryo Amano², Yasushi Mitsunaga³, and Yoshinobu Maeda²

Kindai Univ., Japan

P1-30**SC2_1053****112 Gb/s PDM to MDM PAM4 Signal Conversion for Short Reach Hybrid Networks**H. Zhou¹, Y. Li¹, L.Feng¹, W.Li¹, X.Hong¹, H.Guo¹, Y.Zuo¹, J.Qiu¹, H. Yu², and J. Wu¹¹Beijing Univ. of Posts and Telecommunications, China, ²Fiberhome Telecommunication Technologies Co. Ltd., China**P1-31****SC2_1075****58.125 Gb/s 80 km Transmission of PAM-4 Signal with Improved Dispersion Tolerance**Sang-Rok Moon¹, Hun-Sik Kang¹, Hae Young Rha², and Joon Ki Lee¹¹ETRI, Korea, ²MIROandI, Korea**P1-32****SC2_1093****Performance Analysis for Coherent Space-to-Ground Optical Communication Systems in Turbulence Channels**Yuebing Zhu¹, Xuesong Wang³, Yang Sun³, and Yueying Zhan³¹Univ. Sci. and Tech. Beijing, China, ²China Electronics Tech. Group, China, ³Chinese Academy of Sci., China**P1-33****SC2_1100****DSP-based Collective-Compensation of Interchip Intensity Slope for QPSK-OCDM System**

T. Kodama, T. Nukanobu, T. Miyazaki, and M. Hanawa

Univ. of Yamanashi, Japan

P1-34**SC5_1004****Silicon-on-Insulator (SOI) based Polarization Exchanger using Asymmetric Directional Coupler**Ching-Wei Peng¹, Yuan-Chia Chang¹, Ming-Wei Cheng¹, Yung Hsu¹, Liang-Yu Wei¹, Chi Wai Chow¹, and Chien-Hung Yeh²¹Nat'l Chiao Tung Univ., Taiwan, ²Feng Chia Univ., Taiwan**P1-35****SC5_1006****Color Generation using Multi-Layered Metasurfaces**

Jeong-Geun Yun, Chulsoo Choi, and ByoungHo Lee

Seoul Nat'l Univ., Korea

P1-36**SC5_1027****Compact Silicon-on-Insulator Lower-Order Mode Suppressor**Mohammad H. Sharaf^{1,2}, Ahmed Shalaby³, and Hossam M. H. Shalaby¹¹Egypt-Japan Univ. of Sci. and Tech. (E-JUST), Egypt, ²Al-Azhar Univ., Egypt, ³Banha Univ., Egypt**P1-37****SC5_1032****Analysis of Non-Propagating Modes for Light Trapping in Plasmonic Waveguides**

Syed Muhammad Anas Ibrahim and Kyoung-Youm Kim

Sejong Univ., Korea

P1-38**SC5_1041****Optimization of Interferometric Sensing Heads for Active Mode Locking Laser Sensor**Chang Hyun Park¹, Gyeong Hun Kim¹, Hwi Don Lee², Minsik Jo³, and Chang-Seok Kim¹¹Pusan Nat'l Univ., Korea, ¹GIST, Korea, ³Agency for Defense Development, Korea

P1-39**SC5_1046****Multiplexing of Sagnac Interferometric Filter for Strain Sensing with Phase Shift**Sang Min Park¹, Seung Won Jun¹, Minsik Jo², and Chang-Seok Kim¹¹Pusan Nat'l Univ., Korea, ²Agency for Defense Development, Korea**P1-40****SC5_1047****Spectral Compression of Mid-Infrared Pulse in a Suspended Silicon Waveguide Taper**Yujun Cheng¹, Jinhui Yuan^{1,2}, Chao Mei¹, Feng Li², Zhe Kang², Xianting Zhang², Yin Xu², Binbin Yan¹, Kuiru Wang¹, Xinzhu Sang¹, Xian Zhou², and Chongxiu Yu¹¹Beijing Univ. of Posts and Telecommunications, China, ²The Hong Kong Polytechnic Univ., China**P1-41****SC5_1048****Cylindrical Diffusing Optical Fiber Probe for Photo-Dynamic Therapy**

Gaye Park, Hyeyeon Lee, Derek Minwoo Jung, Chanho Hwang, Changhyun Jung, Jaesun Kim, and Chihwan Ouh

TAIHAN Fiberoptics Co., Ltd, Korea

P1-42**SC5_1049****The Effect of Dy₂O₃ Doped Glass System on Transmission Properties for Laser Sealing**So Young Kim^{1,2}, June Park¹, Seon Hoon Kim¹, and Ju Hyeon Choi¹¹KOPTI, Korea, ²Chonnam Nat'l Univ., Korea**P1-43****SC5_1051****Holographic Solar Concentrator using Multiplexed Holographic Optical Elements**Hui-Ying Wu¹, Seo-Yeon Park¹, Jae-Min Lee¹, Seok-Hee Jeon², and Nam Kim¹¹Chungbuk Nat'l Univ., Korea, ²Incheon Nat'l Univ., Korea