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|---------------|------------------------------------|--------------|-----|
| Session Title | Secure & Free-Space Communications | Session Code | 5D1 |
| Date and Time | July 5 (Thu.) / 08:30-10:00 (90') | | |
| Place | Room D | | |
| Session Chair | C. J. Yoon (ETRI) | | |

5D1-1

08:30-08:45 (15')

Digital Coherent Detection with Decryption in PSK Y-00 Quantum Stream Cipher

Ken Tanizawa and Fumio Futami
Tamagawa Univ., Japan

5 D1-2

08:45-09:00 (15')

Secure Communication using Anti-Correlated Noise from an ASE-Injected F-P LD

Il-Pyeong Hwang¹, Myeonggyun Kye¹, and Chang-Hee Lee^{1,2}
¹KAIST, Korea, ²Chongqing Univ. of Tech., China

5 D1-3

09:00-09:15 (15')

Applying DFTs-OFDM to QAM-based Quantum Noise Stream Cipher Transmission

Xiaokun Yang, Wei Wang, Cheng Xu, Kai Wang, Guangyu Gong, Yongli Zhao, Huibin Zhang, Guan Jun Gao, Xiaosong Yu, and Jie Zhang
Beijing Univ. of Posts and Telecommunications, China

5 D1-4

09:15-09:30 (15')

Link Availability of Terrestrial Free-Space Optical Communication Systems in Korea Estimated by using Macro-Meteorological Data

Vuong V. Mai and Hoon Kim
KAIST, Korea

5 D1-5

09:30-09:45 (15')

Environmental Factor Impact to Free-Space Optical Bi-directional Transmission

Shien-Kuei Liaw¹, Kuang-Yu Hsu², Jai-Ger Yeh¹, Y u-Ming Lin¹ and Yilin Yu¹, and Le-Minh Hoa³
¹Nat'l Taiwan Univ. of Sci. and Tech., Taiwan, ²Maven Optronics Inc., Taiwan, ³Northumbria Univ., UK

5D1-6

09:45-10:00 (15')

Link Availability of Airborne Free-Space Optical Communication Systems under Effect of Generalized Misalignment

Vuong V. Mai and Hoon Kim
KAIST, Korea