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|---------------|-------------------------------------|--------------|-----|
| Session Title | Novel Algorithm for Optical Network | Session Code | 6A1 |
| Date and Time | July 6 (Fri.) / 08:30-10:00 (90') | | |
| Place | Room A | | |
| Session Chair | TBA | | |

6A1-1 (Invited)**08:30-09:00 (30')****Optical Monitoring based on Convolutional Neural Networks**

T. Tanimura, T. Kato, S. Watanabe, and T. Hoshida
Fujitsu Laboratories Ltd., Japan

6A1-2**09:00-09:15 (15')****Multi-Granular Optical Path Computations based on Physical Network Topology Descriptions**

Kiyo Ishii¹, Atsuko Takefusa², Shu Namiki¹, and Tomohiro Kudoh^{1,3}
¹AIST, Japan, ²Nat'l Inst. of Informatics, Japan, ³The Univ. of Tokyo, Japan

6A1-3**09:15-09:30 (15')****Machine Learning with Service Classification for Detecting Control Plane Intrusions in Software Defined Optical Networks**

Fei Wang¹, YongLi Zhao¹, Wei Wang¹, Dongmei Liu², Jun Liu², Shulin Zhang², Zhengyang Ding³, Shen Jin⁴, and Jie Zhang¹
¹Beijing Univ. of Posts and Telecommunications, China, ²State Grid Information & Telecommunication Company Ltd., China, ³State Grid Jiangsu Information & Telecommunication Company Ltd., China, ⁴State Grid Jibei Information & Telecommunication Company Ltd.

6A1-4**09:30-09:45 (15')****Alarm Compression based on Machine Learning and Association Rules Mining in Optical Networks**

Liqi Lou¹, Min Zhang¹, Danshi Wang¹, Jin Li¹, Xiongyan Tang², and Lin Ai¹
¹Beijing Univ. of Posts and Telecommunications, China, ²China Unicom research Inst. Beijing, China

6A1-5**09:45-10:00 (15')****Assessment of Optical Cross-Connect Architectures for the Creation of Next Generation Optical Networks**

Mungun-Erdene Ganbold, Takuma Yasuda, Yojiro Mori, Hiroshi Hasegawa, and Ken-ichi Sato
Nagoya Univ., Japan