

Proceedings of 2019 Winter International Symposium on Big-Data, Cybersecurity and IoT

December 5 (Thurs) - 6 (Fri), 2019

VBL Collaborative Research Room 2, Hokkaido University, Sapporo, Japan

Student Session 1 December 5 14:05 - 15:00

1. *Yusuke Sawada*
Effectiveness of Full-Vector Wavefront-Matching Method in Design of Silicon Waveguide Devices
2. *Weiyang Zhang*
Phase fluctuation of a gain-switched semiconductor laser for quantum key distribution
3. *Elroy Galbraith*
On Structure, Function, and Services of Ocean Bacterioplankton

Student Session 2 December 5 16:50 - 17:50

4. *Kyohei Atarashi*
Feature-based asymmetric link prediction
5. *Kazuhiro Kurita*
Efficient enumeration and counting of maximal cliques in graphs with bounded modular width
6. *Louis Yat Hin Chan*
Macroecological Characterization of Syndemic Risk
7. *Kodai Nakamura*
The enhancement of non-reciprocity loss from graphene using one-dimensional photonic crystal

Student Session 3 December 6 10:50 - 11:45

8. *Sangeetha Ratnayake*
Optimization of Protein-Protein Docking Scoring Function to Improve The Performance of Antibody-Antigen Docking
9. *Kazuma Tateiri*
Algorithms for Enumerating Geodesics on a Polyhedron
10. *Danilo Guimarães Gonçalves*
An Information-Geometric Estimation Method for Autoregressive Models

Student Session 4 December 6 14:35 - 15:30

11. *Tetsuya Sekiguchi*
Propagation Characteristics Estimation for Ensuring the Reliability of 4.4GHz-band WAIC System using FDTD method
12. *Kazumichi Fujiwara*
Population genetics analysis of *Mus musculus* subspecies using Whole Genome Sequence
13. *Naoto Satoh*
Statistical manifolds of constant statistical sectional curvature and doubly autoparallel submanifolds