

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

August 8 (Thurs) - 9 (Fri), 2019

Centennial Hall, Hokkaido University, Sapporo, Japan

## Student Session 1 9:00 - 10:20

Session Chair: Prof. Noriyuki HAMADA University of Massachusetts Amherst/GI-CoRE, HU

1. ○Weili Guo, Michele Torielli  
[On the Falk invariant of signed graphic arrangements](#)
2. ○Kazuma Tateiri  
[Geodesics on a Polyhedron](#)
3. ○Kota Yahaba  
[Enumeration of singular views of a space curve](#)
4. ○Jie Li, Yat Hin Chan, Matteo Convertino  
[Model vs Data Centrality: Probing Transfer Entropy](#)

## Student Session 2 10:40 - 12:00

Session Chair: Prof. Xiaojing HUANG University of Technology Sydney/GI-CoRE, HU

5. ○Shota Shimada, Hiromichi Hashizume, Masanori Sugimoto  
[Optical Orthogonal Frequency-Division Multiplexing for Visible Light Communication using Smartphone Camera](#)
6. ○Hiroaki Murakami, Masanori Sugimoto  
[Smartphone 3-D Localization with a Single Speaker](#)
7. ○Tetsuya Sekiguchi, Takashi Hikage, Manabu Yamamoto, Shunichi Futatsumori, Naruto Yonemoto  
[Estimation of Propagation Characteristics for Wireless Link Design of 4.4 GHz-band WAIC Systems inside and outside Aircraft Cabin using A Large Scale FDTD Analysis](#)
8. ○Yusuke Sawada, Takeshi Fujisawa, Kunimasa Saitoh  
[Fabrication of Silicon Waveguide Lenses Designed by Wavefront-Matching Method](#)

## Student Session 3 13:30 - 15:10

Session Chair: Prof. Amir HOUMANSADR University of Massachusetts Amherst/GI-CoRE, HU

9. ○Wataru Noguchi, Hiroyuki Iizuka, Shigeru Taguchi, Masahito Yamamoto  
[Spatial Representation of Self and Other by Superposition Neural Network Model](#)
10. ○Isamu Furuya  
[A Compact Bit Encoding Method for MR-RePair](#)
11. ○Kazuhiro Kurita, Kunihiro Wasa, Takeaki Uno, Hiroki Arimura  
[An Efficient Enumeration Algorithm for Chordal Bipartite Induced Subgraphs in](#)

[Sparse Graphs](#)

12. ○*Yifan Chen*, Rojeet Shrestha, Zhen Chen, Hitoshi Chiba, Shu Ping Hui, Emiko Okada, Shigekazu Ukawa, Takafumi Nakagawa, Koshi Nakamura, Akiko Tamakoshi, Hiroyuki Minami, Masahiro Mizuta

[Analyses of serum fatty acids with dimension reduction](#)

13. ○*Ke Wan*, Kensuke Tanioka, Hiroyuki Minami, Masahiro Mizuta, Toshio Shimokawa  
[Subgroup Identification for Time-To-Event Data Using the Bump Hunting Method](#)

Special Talk      15:10 - 15:20      Speaker: Dr. Ankuj Arora    Grenoble University

Student Session 4      15:30 - 16:50

Session Chair: Prof. Richard XU    University of Technology Sydney

14. ○*Sangeetha Ratnayake*, Toshinori Endo, Luca Simonellie, Axel Martinellie, Luca Verani, Naoki Osada  
[Computational Docking Scoring Function Tailored to Antibody-Antigen Interfaces](#)
15. ○*Kazumichi Fujiwara*, Kazuhiro Satomura, Toshinori Endo, Naoki Osada  
[The Distribution of Thermodynamic Stability in Human Mitochondrial Protein](#)
16. ○*Weiyang Zhang*, Akihisa Tomita, Kazuhisa Ogawa  
[State tomographic characterization of BB84 states generated by a Dual Parallel Modulator](#)
17. ○*Sheng Xiang*, Shun'ichi Kaneko, Dong Liang  
[Robust Printing Quality Inspection on SHIBO Surface based on Multiple Paired Pixel Consistency with Modification](#)