

Taisho Sasada

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🌐 <https://scholar.google.com/citations?hl=en&user=Orh0RxAAAAAJ>

🌐 <https://github.com/karapto>

Employment History

- 2020 – 2021  **Research Internship** Cybozu Labs
- Aug – Sep, 2020  **Research Internship** NTT Secure Platform Laboratories
- 2019 – 2020  **Data Engineer Internship** Recruit Technologies Co., Ltd
- 2018 – 2019  **Data Scientist Internship** en-japan inc.

Education

- 2021 – 2024  **Ph.D Information Science, NAIST**, Japan in Information Science.
Thesis title: *Research on Practical Privacy Protection Techniques Adapting to the Characteristics of Spatio-Temporal Data.*
- 2020 – 2021  **M.Sc. Information Science, NAIST**, Japan in Information Science.
Thesis title: *A Study on Privacy Preserving Processing of Unstructured Data.*
- 2016 – 2020  **B.Sc, Doshisha University**, Japan in Information Science.
Thesis title: *A Study on Method to Data Imbalanceness*
- July – Sep, 2016  **Exchange Program, St Catharine's, Cambridge University**, England.

Research Publications

Conference Proceedings, Poster

- 1 Masahiro, H., Sasada, T., Taenaka, Y., & Kadobayashi, Y. (2022). A study on recommender method by federated learning for balancing similarity and diversity, IEICE Technical Report.
- 2 Sasada, T., Taenaka, Y., & Kadobayashi, Y. (2022a). Decoupling statistical trends from data volume on ldp-based spatio-temporal data collection, IEEE Future Networks World Forum (Accepted).
- 3 Sasada, T., Taenaka, Y., & Kadobayashi, Y. (2022b). Dpsd: Dynamic private spatial decomposition based on spatial and temporal correlations, The 7th International Conference on Smart Computing; Communication (Accepted).
- 4 Sasada, T., Taenaka, Y., & Kadobayashi, Y. (2022c). Dynamic privacy control method by considering temporal/spatial trends for preserving intrinsic information value in trajectory data, IEICE Technical Report.
- 5 Sasada, T., Taenaka, Y., & Kadobayashi, Y. (2022d). Measuring the educational effectiveness of virtual system design exercise using zero-trust access control, IPSJ SIG Collaboration; Learning Environment.

- 6 Sasada, T., Masataka, K., Taenaka, Y., & Kadobayashi, Y. (2021a). Differentially-private text generation via text preprocessing to reduce utility loss, International Conference on Artificial Intelligence in Information; Communication.
- 7 Sasada, T., Masataka, K., Taenaka, Y., & Kadobayashi, Y. (2021b). A pseudo-text generation model for both privacy protection and intrinsic information value preservation, Proceedings of Forum on Data Engineering; Information Management.
- 8 Sasada, T., Masuda, Y., Kawai, M., Taenaka, Y., Kadobayashi, Y., & Fall, D. (2021a). Design and implementation of a zero-trust access control mechanism to verify user authenticity, IEICE.
- 9 Sasada, T., Masuda, Y., Kawai, M., Taenaka, Y., Kadobayashi, Y., & Fall, D. (2021b). Zero-trust access control focusing on imbalanced distribution in browser clickstreams, The Eighth International Conference on Software Defined Systems.
- 10 Suzuki, T., Sasada, T., Yuto, M., & Taenaka, Y. (2021). Poster: Prototype of a tamper-resistant hosted ids using intel sgx, IPSJ SIG Internet; Operation Technology.
- 11 Sasada, T., Liu, Z., Baba, T., Hatano, K., & Kimura, Y. (2020). A resampling method for imbalanced datasets considering noise and overlap, Procedia Computer Science.
- 12 Sasada, T., Taenaka, Y., & Kadobayashi, Y. (2020a). Anonymizing location information in unstructured text using knowledge graph, International Conference on Information Integration; Web-based Applications & Services.
- 13 Sasada, T., Taenaka, Y., & Kadobayashi, Y. (2020b). Considering the variation of the noise-addition amount in local differential privacy with user trajectory adjacency, IEICE Technical Report.
- 14 Sasada, T., Baba, T., Kimura, Y., & Hatano, K. (2019). A resampling method for imbalanced datasets considering data complexity, IPSJ Technical Report.

Skills

Languages	English, Chinese, Japanese
Coding	Python, R, Go, Javascript, SQL, SAS \LaTeX
Databases	MySQL, PostgreSQL, SQLite, Neo4j.
AI Framework	Tensorflow, Pytorch, PySyft
Big Data Analysis Platform	Hadoop, Spark, Kafka
SDN Framework	Ryu, Trema
Misc	Docker, BeautifulSoup4, Selenium, SMOTE

Miscellaneous Experience

Awards and Achievements

Sep, 2020	LAC Award , Hardening 2020 H3DX
March, 2020	Student Incentive Award , The 82nd national Convention of IPSJ
Feb, 2020	Culture and Information Science Award
2019	SAS Institute Award , Wakayama data utilization competition the 2th time.

Interest

- Privacy-Preserving Technology (Local Differential Privacy, Homomorphic Encryption)

Interest (continued)

- **Trust Technology** (Zero Trust Network, Zero Knowledge Proof)
- **Confidential Computing** (Intel SGX, ARM TrustZone, RISC-V Keystone)
- **Encrypted Database** (CryptoDB, ObliDB)
- **Causal inference** (DID, IV, CATE, LATE)

References

Available on Request