Soto Anno (安納　爽響)

Master's Course Student,
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Tokyo Institute of Technology,
Email: anno@miubiq.cs.titech.ac.jp
Lab Address: 2-12-1 Ookayama, Meguro-ku, Tokyo
Date of Birth: 24th May, 1998 (22 years old)

Research Interests

- **Data-driven understanding of cities, such as urban dynamics, human mobility, and city's atmosphere**
- **Modeling of urban dynamics, especially on abnormal patterns at big events**
- **Analyzing big data such as GPS-based mobility logs, histories of web search session or train transit**

Publication

International Conferences:

- **Soto Anno**, Kota Tsubouchi, and Masamichi Shimosaka. Supervised-CityProphet: Towards accurate anomalous crowd prediction. In Proceedings of the 28th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS 2020), Seattle, WA, USA, 3-6 Nov. 2020.
- **Soto Anno** and Yuichi Sasaki. "GAN-based abnormal detection by recognizing ungeneratable patterns", Asian Conference on Pattern Recognition (ACPR) 2019, Auckland, New Zealand, 26-29 Nov. 2019.

Domestic Conferences:

- **安納爽響**, 坪内孝太, 下坂正倫. 地域の幾何的関係を考慮したマルチタスク回帰に基づく高性能な都市動態予報. 情報処理学会研究報告 第 68 回 UBI 研究発表会, 4, 東京都, 12 2020.
- **安納爽響**, 坪内孝太, 下坂正倫. GPS 位置履歴情報と鉄道の乗換検索履歴を用いた異常混雑事前予測. 情報処理学会研究報告 第 66 回 UBI 研究発表会, 4, 東京都, 5 2020.

Education

Master of Engineering, April 2020 – March 2022 (expected).

- Graduate School of Computing, Tokyo Institute of Technology, Japan
- Research field: Urban Dynamics Analysis, Urban Computing, Big Data Analysis
- Adviser: Prof. Masamichi Shimosaka

Bachelor of Engineering, April 2017 – March 2020. (1-year earlier graduation)

- Undergraduate School of Computing, Tokyo Institute of Technology, Japan
- Research field of the bachelor thesis: Urban Dynamics Analysis, Big Data Analysis
- Adviser: Prof. Masamichi Shimosaka

Utsunomiya High School, Tochigi, Japan, April 2014 – March 2017.

Work Experiences / Internships

Research Internship **(Sep. 2020 – Present)**
Yahoo! JAPAN Research, Japan.

- Developing methods to forecasting anomalous crowds in big events using GPS-based location logs and transit search logs

AI Engineering Internship **(Apr. 2019 – Present)**
Neural Pocket Inc, Japan.

- Developing abnormal detection system based on Generative Adversarial Nets and writing a paper. (See the publication section.)
- Develop a system to automatically recognize and learn car's license plates on active learning manner.

AI Engineering Internship **(Aug. 2018 – Present)**
AIQ Co., LTD., Japan

- Developing a model to recognize fashion trends from images
- Analyzing sensor data for improving living environment with a real estate company

Awards

- Student paper award at IPSJ-SIGUBI 66th Workshop, 6, 2020

Qualifications / Skills

- Machine Learning Skills (please see my past research)
- Programming Skills of Scala, Java, Python, etc.
- 1.5 years of experience in large dataset analysis (GPS data)
- TOEFL PBT 540 (2018)