2023/10/31 2:55 HirokiAzuma.me

Hiroki Azuma Japanese English

TIIUKI AZUIIIa



I am Hiroki Azuma, a first-year master's student in the Department of Information & Communication Engineering at the Graduate School of Information Science and Technology, The University of Tokyo. I am a member of the Aizawa, Yamakata, and Matsui Labs, conducting research in Computer Vision. I have interests in machine learning, MLOps, infrastructure development, and backend development.

Github / Google Scholar / CV

Education

The University of Tokyo (Master, Japan)

Master's Program in Information & Communication Engineering, Matsui Lab. 2023.4 ~ Present

KTH Royal Institute of Technology (Exchange, Sweden)

Division of Robotics, Perception and Learning (RPL) 2023.8 ~ Present

The University of Tokyo (Bachelor, Japan)

Bachelor of Computer Science in Electrical Engineering & Information Communication 2019.4 ~ 2023.3

Projects

Development of Human Flow Digital Twins Generated from Camera Images

Accepted for "2023rd MITOU Advanced Program" from Information-technology Promotion Agency (IPA), Japan (Contract price: 14,400,000 yen).

I am in charge of a software development product manager and machine learning model advisor (I couldn't become a regular member due to living abroad).

Details

 Development of a Real-time Visualization and Forecasting System for the Number of Containers and Delay Times at Ports

Passed the first round of "NEDO Supply Chain Data Challenge (2023)" from New Energy and Industrial Technology Development Organization (NEDO). But we did not win in the final competition.

I was responsible for building machine learning models as an image processing engineer.

Details

2023/10/31 2:55 HirokiAzuma.me

Hiroki Azuma Japanese English

Defense-Prefix for Preventing Typographic Attacks on CLIP

Hiroki Azuma, Yusuke Matsui

ICCV2023 Workshop, Best Paper Award

Paper / Code

Domestic (Japan)

• CLIPにおけるタイポグラフィック攻撃を防ぐPrefix学習

東大樹, 松井勇佑

MIRU2023, Long Oral (Acceptance rate: approximately 16%), MIRU Student Best Paper Award

• Typographic attackを防ぐDefense-Prefixの学習

東大樹, 松井勇佑

IEICE General Conference 2023

Awards

- 2023.10 Best Paper Award @ICCV Workshop 2023
- 2023.7 Best Student Paper Award @MIRU 2023

Internship

• 2022.4 ~: Function

Fullstack software development (Next.js, Python, Terraform, GCP) / Image processing with object detection models (Pytorch)

• 2023.1 ~ 2023.7: mutex

Development of retrieval systems using large language models (Python)

• 2022.11 ~ 2023.1: cellid

Improvement of the performance about 3D reconstruction with SfM (Python)

2021.8 ~ 2021.9: cocone

Backend, API development (Java)

Scholarships

日本学生支援機構(JASSO)2023年度海外留学支援制度(協定派遣)奨学金

Language

Japanese (Native), English (Academic Level)

Others

- TOEFL 90 (2023.5)
- VSCode-Extension(Typescript)
- House-App(Vue.js, d3.js)