

Taiga Masuda

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Summary

I am a first-year master's student dedicated to advancing in computer vision and natural language processing through research. Currently, my goal is to develop an innovative model that can simultaneously process image understanding and natural language understanding, and understand human research.

Education

Bachelor of Science of Engineering, Chubu University

Apr 2020 - Mar 2024

- GPA: 3.4/4.0
- **Coursework:**
Digital Signal Processing, Machine Learning, Robot Programming, Robot Vision.
- **Research Experience:**
 - Engaged in research within the interdisciplinary field of Vision and Language, which integrates computer vision and natural language processing.
 - Developing machine learning models that explain graph diagrams using natural language.

Currently pursuing a Master of Science, Chubu University

Apr 2024 -

- Graduate School of Engineering
- Department of Robotic Science and Technology
- Member of Fujiyoshi Laboratory

Skills & Expertise

Platforms : Linux, macOS, Windows

Programming Languages : C, C++, Python, MATLAB, ROS

Other skills : pytorch, openCV, Pandas, NumPy, Docker, HTML/CSS, LaTeX

Publications

1. **Taiga Masuda**, Hiroki Adachi, Tsubasa Hirakawa, Takayoshi Yamashita, Hironobu Fujiyoshi, Shohei Tanaka, Kuniaki Saito, Yoshitaka Ushiku, **"Figure Captioning Focused on the Attention Region by Manipulating Attention Weights"**, the Meeting on Image Recognition and Understanding (MIRU), 2024. (schedule)

Projects

Moonshot R&D Program promoted by JST

Jan. 2004

- Realization of AI robots that autonomously learn, adapt to their environment, evolve in intelligence and act alongside human beings, by 2050.
- AI & Robots that Harmonize with Humans to Create Knowledge and Cross Its Borders
- Milestone by year 2025: AI robots can understand research conducted by researchers at such a level that they can reproduce and explain the research themselves.