AKIHISA WATANABE

+81 70 4363 3948

akihisa-watanabe.github.io

akihisa@ruri.waseda.jp 👩 github.com/Akihisa-Watanabe

▼ Tokyo, Japan

SUMMARY

I am currently a 3rd-year undergraduate student in Simo-Serra Lab. of Waseda University, advised by Prof. Edger Simo-Serra. My research intereset is in 3D human motion generation, focused on generatin a wide range of movements, from daily activities to complex, sport-specific and specialized movements. My vision is to leverage this technology to devise new techniques for fields such as sports, facilitating new ways of learning and advancing while reducing the risks associated with physical practice.

During the internship, I am interested in pursuing research at the intersection of motion generation and natural language processing. I would like to expand on methods such as those employed by Eureka and PADL, which convert textual descriptions into animations. In particular, I am intrigued by the possibility of equipping models with the ability for self-narration, where agents can describe their own actions in natural language. By integrating with LLMs, I expect these models to attain the capability to perform complex tasks, such as replicating sports movements, more realistically.

SKILLS

Languages: Python, C++, Swift.

Frameworks: PyTorch, Gym (OpenAI), Isaacgym.

PUBLICATIONS AND PROJECTS -

Open-Domain Dialogue Quality Evaluation: Deriving Nugget-level Scores from Turn-level Scores Paper

Rikiya Takehi, Akihisa Watanabe, Tetsuya Sakai, SIGIR-AP '23, 2023.

arXiv:2310.00410

Time's Up for Replay Attacks: Countermeasures Against Replay Attacks Considering the Temporal Paper (Japanese)

Changes of Biometrics

Watanabe.A, Matsumoto.K, Mori.T, Iijima.R, Computer Security Symposium(CSS2023), 2023.

https://drive.google.com/file/d/11Zhm1RihxNjFbcCrCdsb1ga8wGfVOKVO/view

Paper (Japanese) sEMG-based Gesture Authentication for Smartwatch

Watanabe.A, Iijima.R, Mori.T, IEICE Technical Committee on Information and Communication System Se-

curity(ICSS2023), 2023.

https://drive.google.com/file/d/15GXWDjpoN2YoShbSvD9irV5tfG9e6QPu/view

Reinterpretation of 'Eternal Sunshine of the Spotless Net: Selective Forgetting in Deep Networks' Article

Akihisa Watanabe, 2023.

https://drive.google.com/file/d/1Gcgvb7YKZ9V0n-tH80m9gY_rT0JQ1Sve/view

Implementation of the Basic Policy Gradients Algorithm for Character Animation (UC Berkley CS 285) Project

Akihisa Watanabe, 2023.

https://github.com/Akihisa-Watanabe/berkeleydeeprlcourse_solusions

EDUCATION

4/2021 -Waseda Universiy

Tokvo, Japan

Major: Applied Mechanics and Aerospace Engineering.

Minor: Computer Science.

4/2018 - 3/2021 Waseda University Honjo Senior High School Saitama, Japan

EXPERIENCE

10/2021 - 3/2023 Adacotech Inc.

Tokyo, Japan

Primarily engaged in the implementation of POC projects as an ML Engineer (Anomaly Detection).

Python / OpenCV / Pytorch

LANGUAGES

English - C1, Japanese - native