

RINTARO SATO

1st-year Master's student in CS

Key Terms: Computer Vision, Reinforcement Learning, Combinatorial Optimization

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GitHub ◦ <https://github.com/rintarooo>

LinkedIn ◦ <https://www.linkedin.com/in/rintarooo>

EDUCATION

Tsukuba University

M.E. in Computer Science.

Overall GPA: -

Japan

Apr 2021 - present

Kyushu University

B.E. in Mechanical Engineering.

Thesis Theme: Solving The-Multi Depot Vehicle Routing Problem using Deep Reinforcement Learning

Overall GPA: 3.31/4.00

Japan

Apr 2016 - Mar 2021

TECHNICAL STRENGTHS

Coding

C / C++ / Python3 / MATLAB / R / PostgreSQL / Shell Script

DL Framework

PyTorch / TensorFlow / Keras

Library

OpenCV / PCL / OpenAI Gym / Scikit-Learn

3D Modeling

Creo Parametric

Other Tools

Linux(Ubuntu) / Docker / Git / Vim / LaTeX / CMake

Launguage

fluent in English(TOEFL iBT: 78/120 / TOEIC: 925/990) / Japanese(native)

INTERNSHIP

Fusic Co., Ltd.

Research Engineer(Computer Vision) in Machine Learning Team

Japan

part-time, Aug - Sep 2020

- Perform color space conversion to RGB images with LAB / HSV and other image processing.
- Build person's image classification model using Deep Metric Learning / SVM / Decision Tree.

Panasonic R&D Center Singapore

Research Engineer(Computer Vision) in Learning&Vision Team

Singapore

full-time, Dec 2019 - Mar 2020

- Work on projects in the following fields, Video Analysis, Action Recognition(event scene detection in Basketball videos, surveillance videos of prison).
- Build classification models(e.g., 3D-CNN, Two-Stream model with Optical Flow) on public dataset(e.g., UCF101, UCF-Crime) and our own dataset.
- Research SotA(State-of-the-Art) model architecture and training method, tune hyperparameter, evaluate pre-trained model performance.

EXTRA-CIRRUCULAR

TU Bergakademie Freiberg

Internship Program

Germany

Sep - Nov 2019

- Conduct TGA(thermogravimetric analysis) experiments
- Analyze results of experimental data with Python, pandas.

University of Illinois at Urbana-Champaign

America

Research Exchange Program

Feb - Mar 2019

- Analyze images and videos for the oscillation of the water droplets on hydrophobic surfaces using MATLAB and high speed camera.

SEEDS

Iceland

International Volunteer

Aug - Sep 2018

- Work on nature and environmental oriented tasks including maintaining hiking paths, building stairs and collecting pine cones that are used to plant again in the forest in the North of Iceland.

University of Cambridge

England

Summer Course Program

Aug - Sep 2017

- Learn Academic Writing and Speaking, Visual Arts and Architecture in Cambridge.

PUBLICATION

The 83rd National Convention for Information Processing Society of Japan(IPSJ)

Mar 2021

Solving The Multi-Depot Vehicle Routing Problem using Deep Reinforcement Learning

Rintaro Sato, Yasutaka Tsuji

AWARD

Student Encouragement Award of The 83rd National Convention for Information Processing Society of Japan(IPSJ)

Mar 2021

SCHOLARSHIP

JEES/Softbank AI Scholarship

Mar 2021

- Scholarship for the Master's students who are engaged in research on Artificial Intelligence in the field of Information Engineering/Science and Statistics

Tobitate Young Ambassador Scholarship

Aug 2019

- Scholarship for the students to develop into globally minded professionals needed by society, especially industry, and who can succeed in a global world

CERTIFICATION

Databases and SQL for Data Science on Coursera	<i>Aug 2020</i>
Accelerated Computer Science Fundamentals Specialization(Ordered Data Structures, Unordered Data Structures, Object-Oriented Data Structures in C++) on Coursera	<i>Apr 2020</i>
Convolutional Neural Networks on Coursera	<i>Aug 2019</i>
Sequence Models on Coursera	<i>Aug 2019</i>
Neural Networks and Deep Learning on Coursera	<i>Aug 2019</i>
Advanced Open Water Diver on PADI	<i>Sep 2016</i>