RINTARO SATO

1st-year Master's student in CS

Key Terms: Computer Vision, Reinforcement Learning, Combinatorial Optimization

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EDUCATION

Tsukuba University   Japan
M.E. in Computer Science.   *Apr 2021 - present*
Overall GPA: -

Kyushu University   Japan
B.E. in Mechanical Engineering.   *Apr 2016 - Mar 2021*
Thesis Theme: Solving The-Multi Depot Vehicle Routing Problem using Deep Reinforcement Learning
Overall GPA: 3.31/4.00

TECHNICAL STRENGTHS

Coding	C / C++ / Python3 / MATLAB / PostgreSQL / Shell Script
DL Framework	PyTorch / TensorFlow / Keras
Library	OpenCV / PCL / OpenAI Gym / Scikit-Learn
3D Modeling	Crep 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.   Japan
Research Engineer(Computer Vision) in Machine Learning Team   *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   Singapore
Research Engineer(Computer Vision) in Learning&Vision Team   *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 Germany
Internship Program *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 filed 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 *Aug 2020*

Accelerated Computer Science Fundamentals Specialization on Coursera *Apr 2020*

Convolutional Neural Networks on Coursera *Aug 2019*

Sequence Models on Coursera *Aug 2019*

Neural Networks and Deep Learning on Coursera *Aug 2019*

Advanced Open Water Diver on PADI *Sep 2016*