Taemin Choi

Robotics Software Engineer

Creative software engineer with 2+ years of background in a robotics research field. Proficient in ROS, Python, and machine learning frameworks such as Tensorflow and PyTorch. Passionate about designing robots that can learn novel knowledge by HRI

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📍 Seoul, Republic of Korea

🐙 github.com/Taemin-Choi

TECHNICAL SKILLS

Robotics Framework
ROS

Maching Learning Framework
TensorFlow, PyTorch

Programming Language
C++, Python

INTERESTS

Machine Learning

Active Learning

Robotics   IoT

Maker Movement

LANGUAGES

Korean
Native Proficiency

English
Professional Working Proficiency

Japanese
Elementary Proficiency

EDUCATION

M.S. in Mechanical Engineering
Korea University

03/2018 – 02/2020   Seoul, Republic of Korea

Research paper

- "Active learning of novel classes for robotic visual recognition system"

B.S. in Mechanical Engineering and Global Technology Management(Dual Major)
Seoul National University of Science and Technology

03/2011 – 02/2018   Seoul, Republic of Korea

WORK EXPERIENCE

Intern
Korea Institute of Science and Technology(KIST)

03/2020 – Present   Seoul, Republic of Korea

Achivements/Tasks

- Applied the proposed active learning process to classification and object detection by calculating the uncertainty of prediction result

Student Researcher
Korea Institute of Science and Technology(KIST)

03/2018 – 02/2020   Seoul, Republic of Korea

Achivements/Tasks

- Designed an active learning process to solve the open-set problem in robotic visual recognition system based on Bayesian approach

Research Trainee
Korea Institute of Science and Technology(KIST)

07/2017 – 02/2018   Seoul, Republic of Korea

Achivements/Tasks

- Developed a semantic information mapping application for mobile robot based on ConceptNet.

Research Trainee
Korea Institute of Science and Technology(KIST)

02/2016 – 08/2016   Seoul, Republic of Korea

Achivements/Tasks

- Designed a camera-based detection error estimation and correction method using a mobile robot
- Developed an android application for mobile robot control

AWARDS

Prototyping Competition (11/2016)

CCEI Gwangju, Republic of Korea

Hackathon for Elimination of illegal sports gambling (11/2018)

Korea Sports Promotion Foundation

Big data challenges in transportation (08/2019)

Ministry of Land, Infrastructure and Transport

PROJECTS

Development of advanced and efficient technology for installation and operation of isolation treatment facilities

04/2021 – Present   Ministry of the Interior and Safety

Participating Researcher

- Development and operation of an aid-robot for isolation treatment facilities
- Intergration of management system for isolation treatment facilities

Development Of Non-invasive Integrated BCI SW Platform To Control Home Appliance And External Devices By User's Thught Via AR/VR Interface

03/2018 – Present   Ministry of Science and ICT

Participating Researcher

- Intelligentization of telepresence robot movement control technology

KANBOM

03/2020 – 09/2020   Personal Project

Project Leader

- Development of companion plant care application service linked with IoT devices

PUBLICATIONS

Estimation of model Uncertainty using dropout method

Author(s)   Conference

Taemin Choi., J. Noh., Y. Lim., JS C.
January 2019

Korea Robotics Society Annual Conference(KRoC) 2019

Determination of Local Goal for a Mobile Robot with Sporadic Human Commands of Tele-Operation

Author(s)   Conference

J. Noh., Taemin Choi., Y. Lim., JS C.
August 2018

RO-MAN 2018