OIT-RITS(JAPAN)



サービスカテゴリー

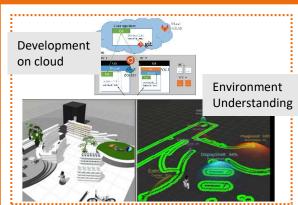




Development point

Our focus:

- Flexibly adapt to a newly visited home environment
- How to achieve tasks in a new home environment
- How to recognize a user's utterances and determine actions to achieve the user's goals in a noisy home environment?
- How to streamline sharing and managing various software at remote and multiple locations and accelerate researches and developments?



Introduction of your team

[Inspiration, motivation to form a team]

Our team consists Ritsimeikan's smart task planning, and development infrastructure and OIT's motion control module which is fundamental of service robots.

[Future outlook]

(1) A robot to understand a hierarchical structure of a home environment. (2) A robot to learn places and objects associated with meaning, in a home environment by an unsupervised manner. (3) A robot to estimate the relationship between places and objects by transferring spatial concepts.

Role	Name	Affiliation/Title	Specialty, Field of study
Team leader	Yuki Inoue	Osaka Institute of Technology/ Professor	Development of autonomous mobile robot
Image Recognition	Naoshi Matsuo	Ritsumeikan University / Assoc. Professor	Image recognition, machine learning
Navigation	Shoichi Hasegawa	Ritsumeikan University / Master 1 st	Robot control, task planning
Machine Learning	Akinori Kanechika	Ritsumeikan University / Master 1 st	Image recognition, visualization, machine learning
Grasping	Masaki Ito	Ritsumeikan University / Bachelor 4 th	Control of manipulators, inverse kinematics, active grasping
Voice synthesis	Cai Chengkai	Ritsumeikan University / Doctor 4 th	Speech enhancement, remote audio capturing, voice synthesis, speech recognition
Navigation	Takayuki Nakayama	Osaka Institute of Technology / Professor	Image recognition, motion control
Software Development	Shunya Tanaka	Osaka Institute of Technology / Master 2 nd	Image recognition, robot control software
Test, data set up	Shoi Higa	Osaka Institute of Technology / Bachelor 4 th	Control of manipulators
Machine Learning	Yusei Nagao	Osaka Institute of Technology / Bachelor 4 th	Application of machine learning



Contact

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HP etc.

https://sites.google.com/em.ci.ritsumei.ac.jp/oit-rits-wrs2020 (OIT-RITS)