

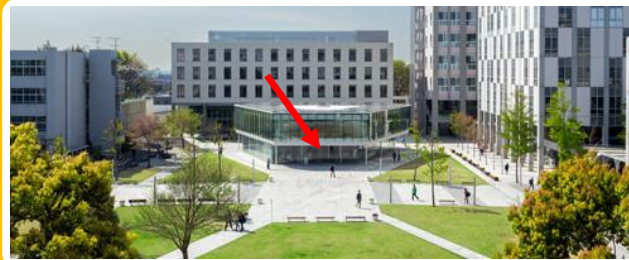
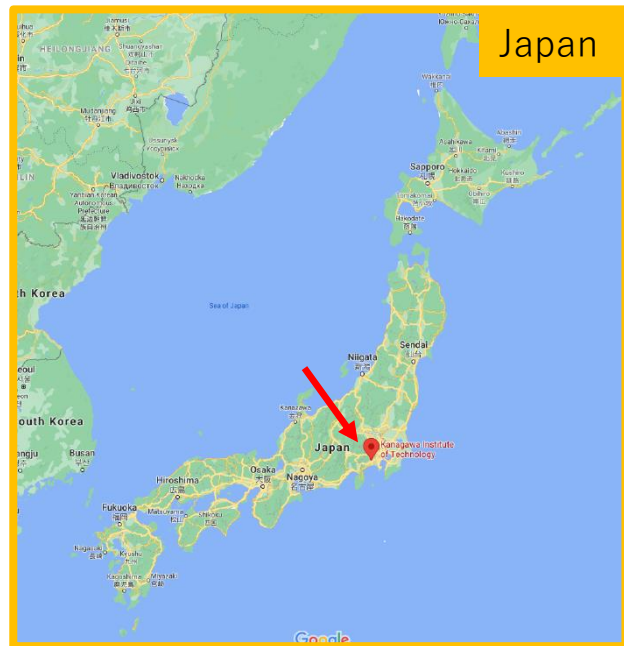
Human Robot Interaction for Health Care and Beyond



Brief Self Introduction

▣ Ryo Saegusa (Call me “Ryo” ☺)

- SybLab: Human-Machine **Symbiosis** **L**aboratory
- KAIT: **K**anagawa **I**nstitute of **T**echnology, Japan



KAIT

KAIT: About 200 faculty staffs and 5000 students studying in 13 depts of u.g. schools and 6 depts of graduate schools.



SybLab

SybLab: 4 faculties and 22 students

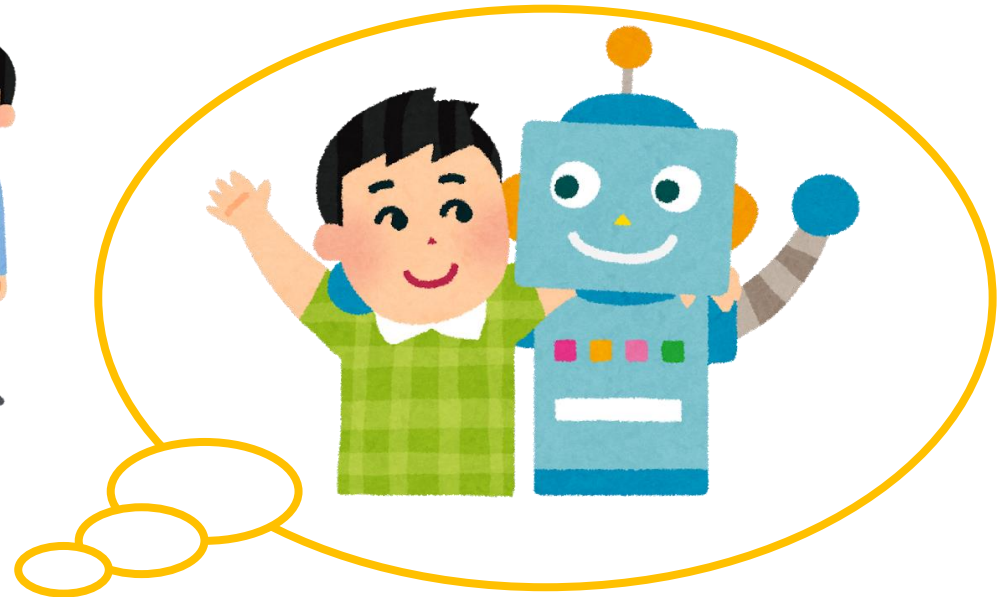


Motivation

- We need supports for living, but we have very few people to request a help... (We are all busy for own life!)
 - Why don't we ask robots to help our life?



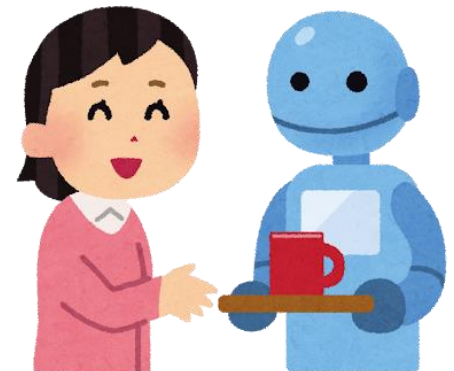
Elderly and handicapped people,
caregiving parents and the babies...



Health care robots are our hope!

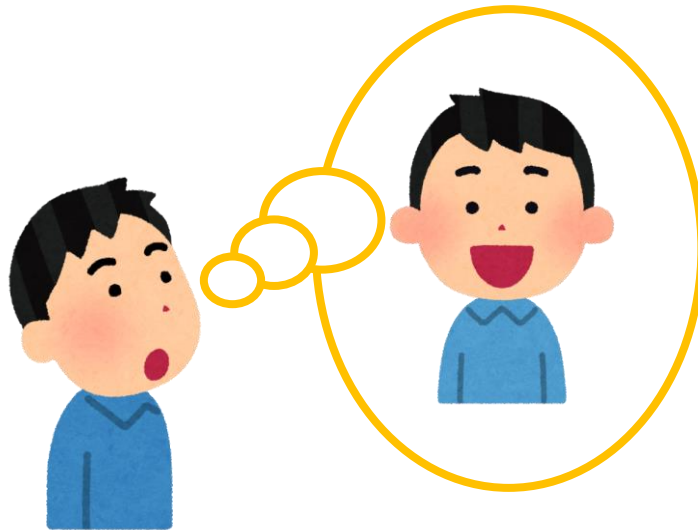
Motivation

- ❑ Human and robots are different in their field of expertise.
 - Let's try to request a help to a robot (no hesitation)!
- ❑ Robots are good at...
 - Works simple and repeatable (cleaning,...)
 - Works that embarrass people (toileting,...)
 - Works that may give you a risk (decontaminating,...)
- ❑ Ask, ask, ask all our works...



Motivation

- ❑ Then, what remains after you asked all?
 - You will see what you really like to be and do!
- ❑ Asking robots is a good thing!



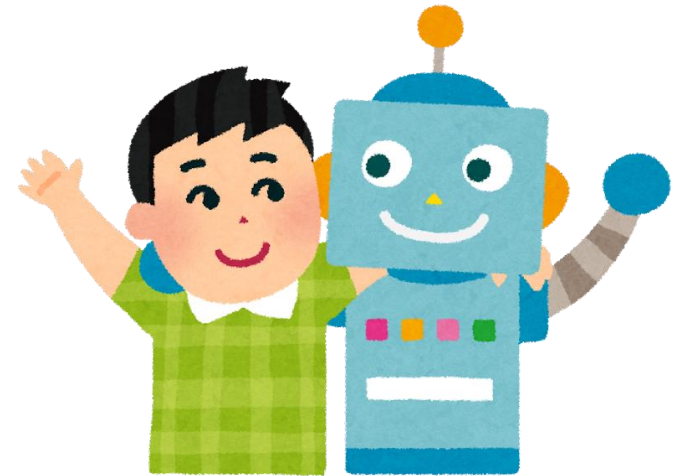
I'm unreplaceable!

Motivation

▣ Also, robot elements enrich your sensing and actions.

- Watching with smart glasses
- Hearing with aid devices
- Eating with manipulators
- Moving with powered suits
- Talking with AI speakers
- Thinking with partner robots

▣ Robots enrich your life!



Next slides
Three examples

What's up on Robots for Cares?

What's up on Robots for Medicals?

What's up on Robots for Welfare?

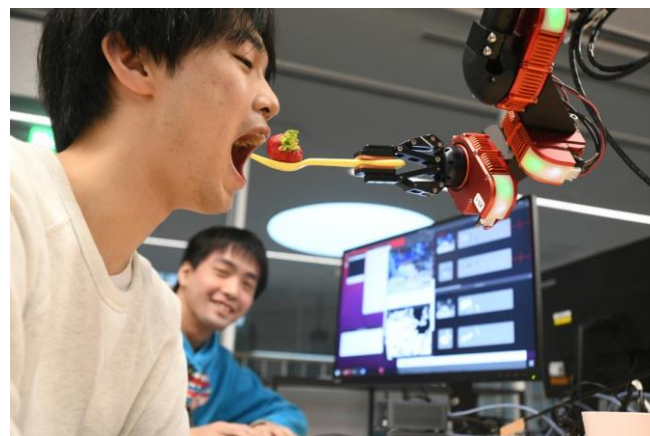
Acknowledgements

▣ I thank to the lab members having elaborated the studies presented in this talk...

SybLab members, 2021



Would you like to try?



▣ Thanks for your kind attention!