# TE04

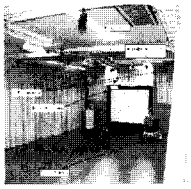
# Humanoid Robot Interaction

**15:40-17:40** **Chair1 : Hideki Hashimoto ( IIS, Univ., Japan )**
**Room : 1st Floor-Wilder Kaiser** **Chair2 :**

**15:40 – 16:00** **TE04-1**

### Human Robot Interaction via Intelligent Space

Hideki Hashimoto, Joo-Ho Lee, Kazuyuki Morioka(Univ. of Tokyo, JAPAN)



- Intelligent Space
1 Optimal Camera Arrangement
2 People Tracking
3 Physical Robot
4 Robot Control
5 People Following Robot
- Initial stage for making high-level human robot interaction.

http://dfs.iis.u-tokyo.ac.jp/~leejooho/ispace/

**16:00 – 16:20** **TE04-2**

### Human Robot Interaction via Evolutionary Network Intelligence

Toru Yamaguchi(Tokyo Metropolitan Institute of Tech., JAPAN)

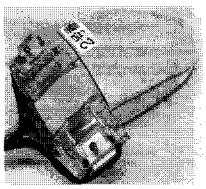
This paper describes the configuration of a multi-agent system that can recognize human intentions. This system constructs ontologies of human intentions and enables knowledge acquisition and sharing between intelligent agents operating in different environments. This is achieved by using a bi-directional associative memory network. The process of intention recognition is based on fuzzy association inferences. This paper shows the process of information sharing by using ontologies. The purpose of this research is to create human-centered systems that can provide a natural interface in their interaction with people.

**16:20 – 16:40** **TE04-3**

### A Study on A Progressive SAW Tactile Display PC Mouse And Evaluation of The Performance

Masaya Takasaki, Takeshi Mizuno(Saitama Univ., JAPAN), Takaaki Nara(Nat'l Institute of Informatics, JAPAN)

- Surface Acoustic Wave
- Tactile Display Principle
- Installed on PC Mouse Button
- Vibration Measurement
- Demonstration on PC Screen
- Comparison Tests

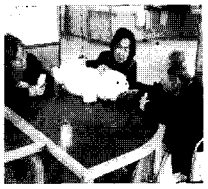


**16:40 – 17:00** **TE04-4**

### Robot Assisted Activity at a Health Service Facility for the Aged

Takanori Shibata(AIST&PRESTO), Kazuyoshi Wada, Tomoko Saito, Kazuo Tanie(AIST)

- Introduction
- Seal Robot: Paro
- Placebo Seal Robot
- Health Service Facility for Aged
- Robot Assisted Activity
- Discussions
- Conclusions



**17:00 – 17:20** **TE04-5**

### Human Robot Interaction via Wearable Robot

Hiroshi Kobayashi(Science Univ. of Tokyo, JAPAN)

- Developing "muscle suit" providing muscular support
- Based on a new concept: wearable robot
- Be applicable directly to human
- McKibben artificial muscles are sewn into a garment