

**Robotics modeling of diversity of multiple KANSEI and
situation understanding in real space**

Toshikazu KATO

(Chuo University, Dept. of Industrial and Systems Engineering, Professor)

【Outline of survey】

This research aims at the establishment of a basic technology to achieve the information environment that suits individual diversity in the mobile and ubiquitous network.

We focus on multiple diversities in subjective perception process, situation understanding in personal context, and personal knowledge background of each individual. Such diversities are modeled through natural human-information environment interaction without psychological nor physical loads to each person. Highly human-friendly personal assistance can be performed referring these models.

Our approach is to describe such diversities with an analogy of intelligent robot and to control the information environment by the robotics method.

【Expected results】

Each individual can receive highly customized human-friendly personal information assistance all through the mobile and ubiquitous network. Such assistance covers multimedia contents service, shopping assistance, distance learning, and so on, which should understand the diversities in subjective perception process, situation understanding in personal context, and personal knowledge background of each individual.

【References by the principal investigator】

- Toshikazu KATO: “Kansei Robotics: Measurement and Modeling of Kansei from Robotics Aspect”, Journal of Japanese Society for Artificial Intelligence, Vol.21, No.2, pp.183-188, 2006.

【Term of project】 FY2007—2011

【Budget allocation】 13,600,000 yen
(2007 direct cost)

【Homepage address】

<http://www.hm.indsys.chuo-u.ac.jp/> (Lab's HP)