

## **A study of human sense effects and characteristic during human-human cooperative task**

### **Abstract**

One of the most important thing to take into consideration when designing human cooperative robot is to make the robot move as smooth as possible during the cooperative task. This is to ensure that human can work with robot with high degree of smoothness that would ensure the task is completed without stress and fatigue to human. Since robot does not know the feeling of human, we need to replicate the human motion characteristic into the robot. In human-human cooperative task normally to achieve good cooperative task, human will use auditory, visual and touch senses among others. We arranged the experiment subjects so that they utilized their senses alternately during the cooperative task. We want to understand what kind of sense at which moment was used to get good cooperative task. We also want to find out how human react with each other during cooperative task and determine most ideal cooperative task condition.

**Keywords** — Follower, human-human cooperative task, human-robotic interaction, leader