A study of human-human cooperative characteristic based on task direction

Abstract

Increasing dependencies on welfare robot to take care human for welfare and rehabilitation purpose have given the need for robot that have humanlike movement characteristic. Our research is to find out how robot can cooperate with human with humanlike qualities. We start with studying human-human cooperative motion. In this experiment two human subjects move experiment object cooperatively in horizontal left and right direction while looking at the animated experiment object on pc monitor. A visual marker will indicate the final stopping position. We varied the position of visual marker and the communication method between the two humans in order to find out the best communication characteristic of human-human that will be applied to our robot.