

システム情報工学研究科修士論文概要

年 度	平成 25 年度	学位名		修士(工学)
専 攻	知能機能システム	専攻	著者氏名	潘 雅冬
指導教員氏名 鈴木 健嗣				
論文題目 <p style="text-align: center;">Direct and Indirect Human Robot Interactions in a Hotel Public Space (公共空間における人とロボットの直接的・受動的インタラクション)</p>				
論文概要 <p>This paper presents a study using social robots in a hotel public space to investigate human attitude towards direct and indirect social robot interactions. We focus on human-robot interaction (HRI) that happens in a social zone, and pay particular attention to people's first and second response during encounters with the robots. We designed three scenarios based on the two interaction styles, and used humanoid robot Nao for setting up our experiments: (i) A single robot faces and greets each guest. (ii) A single robot engages in soliloquy about hotel information. (iii) Dual robots have conversations between each other about hotel information. Another two kinds of humanoid robot - Palro and Gemini - were used to enhance the proof of our hypotheses under the same experiment conditions. We also included a human-staff and a TV-set to make comparative studies between robotic and common method of information service in the hotel. In each experiment, guest-behavior in response to robot's performance and robot's interaction with other guests was studied by using four categories that define the level of a guest's response. Several statistical significances were observed in the experiments, which helped to understand direct and indirect HRI in certain steps under a social proxemic context.</p>				
審査日 平成 26 年 1 月 30 日				
審査員	大学名	職名	学 位	氏 名
主査	筑波大学	准教授	博士(工学)	鈴木健嗣
副査	筑波大学	教授	工学博士	山海嘉之
副査	筑波大学	教授	博士(工学)	中内靖