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Thesis Outline

# **The Exploration of Uncanny Valley and Influence of Robot's Nonverbal Behaviours toward Likability in Human-robot Interaction**

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This thesis presents an exploration of Uncanny Valley from the viewpoint of robot's nonverbal behaviour. The main aim of this thesis is to explore the existence of Uncanny Valley from a viewpoint of robot's nonverbal behaviour. It consists of six chapters. The investigations start from human-human interaction to human-robot interaction (3 experiments in total). Chapter 1 provides general background of the investigations on Uncanny Valley in current studies, which mostly focused on the influence of robot's appearance and point out the limitation of the current studies. Chapter 2 describes an experiment in human-human interaction aiming to assert the importance of nonverbal behaviour in the interaction by investigating the relationship between human's internal state and interactional nonverbal behaviour in short lecture task. Chapter 3 demonstrates an experiment in human-robot interaction aiming to investigate and affirm the influence of robot's nonverbal behaviour toward human's likability. Chapter 4 further extends the investigation from Chapter 3 with more variety of robot's nonverbal behaviour combinations to explore the Uncanny Valley from a viewpoint of robot's nonverbal behaviour by investigating the evaluation on human-likeness and affinity of robot's nonverbal behaviours. In Chapter 5, general discussion, limitations, and future works of this study are presented. Lastly, Chapter 6 summarizes the thesis.