## Hand Tracking and object reaction to human movement Lin Shao

## Introduction

Currently there are few projects focusing on the interaction between human and object. However the interaction is becoming more and more important. Hand tracking is one of the center problems. Furtunately leap motion has provided a novel way to interact with objects by tracking hands.

by tracking natios.
Following the hand tracking, object has to react to hand movment. We also want to study how object will react to human movement. We believe by combining hand tracking and object reaction we could make progress in studing interaction.
Devices.
I got a leap motion.
Timeline
Week 7 Familiar with Leap motion API
Week 8 Study the reaction of object
Week 9 Combine both parts to produce a live demo
Output
Live demo
Object reaction pattern to hand movement
Reference
Free-Hand Interaction with Leap Motion Controller for Stroke Rehabilitation
Investigating the Usability of the Leap Motion Controller: Gesture-Based Interaction with a 3D Virtual Environment

Evaluation of the leap motion controller as a New Contact-Free Pointing Device