

Tremor Detection with Leap Motion

The Problem

Detecting attributes of tremor in hands is currently a costly, time consuming and semi-invasive procedure. By fitting accelerometers to a patient's fingers and tracking the movements with large and expensive machines, information about 1 finger can be retrieved.

The Solution

Dr Philip Michael discovered the Leap Motion device and immediately saw the potential to change a costly, time and space consuming procedure into an easily accessible process for patients as well as practitioners.

The Technique

By interfacing with the Leap Motion device, the team at Swinburne developed software that is run in a browser and displays results to the patient and practitioner as soon as the test is completed. Merely hovering a hand above the Leap Motion device for 5 seconds can analyse the attributes of tremor in the hand.

Team Members

Josh Stopper
Daniel Corsaletti
Shengwei Li

Ming Duc Nguyen
Tran Xuong Tran

Client

Dr. Philip Michael
Supervisor

Professor Caslon Chua



SWINBURNE UNIVERSITY
OF TECHNOLOGY