



SDSU
presents
MS Computer Science
THESIS DEFENSE

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Gesture Recognition Using Proximity Sensors

Abstract

Gesture-based interfaces provide an intuitive way for users to specify commands and interact with computers, it pertains to recognizing meaningful expressions of motion by a human, involving the hands, arms, and body. In this project we will be using proximity sensors to recognize the gesture.

This project concentrates on embedding this feature into GIS which helps disabled users to interact with the tool in effective way. Ultrasonic sensors are one of the most effective proximity computing devices which use speed of sound pulse to compute the distance between the transmitter and object. Arduino open source electronic help us to process the data from these sensors and help transmitting these data in to our GIS system where the data is used to evaluate gestures made by the user.

Thesis Committee

Carl Eckberg, Thesis Chair, Department of Computer Science
Alan Riggins, Department of Computer Science
Fred Harris, Department of Electrical and Computer Engineering