

UNIVERSITY OF SOUTH FLORIDA

Defense of a Master's Thesis

Predicting the Number of Objects in a Robotic Grasp

by

Utkarsh Tamrakar

For the M.S. Degree in Computer Science

Picking up the desired number of objects at once from a pile is still very difficult to do for a robot. The main goal of this thesis is to predict the number of objects in the grasp. This thesis describes several prediction models that predict the number of objects in the grasp of a Barrett hand using the tactile sensors and palm and its