USF
UNIVERSITY OF
SOUTH FLORIDA

Defense of a Master's Thesis

Only Pick Once-Multi Object Picking Algorithms
for Picking Exact Number of Objects Efficiently

by

Zihe Ye

for the M.S. degree in Computer Science

Picking up multiple objects at once is a grasping skill that makes a human worker efficient in many domains. This paper presents a system to pick a requested number of objects by only picking once (OPO). The results show OPOS has very high success rates for two and three objects when only picking once. Using OPOS can significantly outperform two to three times single object picking in terms of efficiency. The results also show OPOS can generalize to unseen size and shape objects.

Wednesday, June 14, 2023
Time 11:00 AM
Online (Microsoft Teams)
please email for more information
ziheye@usf.edu

THE PUBLIC IS INVITED

Examining Committee:

Major Professor: Yu Sun, Ph.D.

Committee: Shaun Canavan, Ph.D.
Xiaoning Qian, Ph.D.

Robert Bishop, Ph.D. Dean,
College of Engineering

Ruth H. Bahr, Ph.D. Dean,
Office of Graduate Studies

Accessibility & Accommodations:
If you require a reasonable accommodation to participate, please contact the
Office of Diversity, Equity, and Inclusion at (813) 974-4375 at least five (5) working days prior to the event.