## UNIVERSITY OF SOUTH FLORIDA

## Defense of a D

Functional Object-Oriented Network: A Knowledge Representation for Service Robotics

by

David A Paulius

For the Ph.D. degree in Computer Science & Engineering

## Examining Committee

Susana Lai-Yuen, Ph.D., Chairperson Yu Sun, Ph.D., Major Professor Changhyun Kwon, PhD. Xiaoning Qian, Ph.D. Paul Rosen, Ph.D. Sudeep Sarkar, Ph.D. Yicheng Tu, Ph.D. Friday, 6th March, 2020 2:00 PM ENB337

THE PUBLIC IS INVITED

## **Publications**

- D. Paulius, Y. Huang, J. Meloncon, and Y. Sun, "Manipulation Motion Taxonomy and Coding for Robots", (IROS 2019)
- D. Paulius and Y. Sun, "A Survey of Knowledge Representation in Service Robotics", Robotics and Autonomous Systems 118, 13-30, July 2019
- A. B. Jelodar, D. Paulius and Y. Sun, "Long Video Activity Understanding using Functional Object-Oriented Network", IEEE Transactions on Multimedia, 2019
- D. Paulius, A. B. Jelodar and Y. Sun, "Functional Object-Oriented Network: Construction & Expansion", (ICRA 2018)
- D. Paulius, Y. Huang, R. Milton, W. D. Buchanan, J. Sam and Y. Sun, "Functional Object-Oriented Network for Manipulation Learning", (IROS 2016)

M. Alibayev, D. Paulius, and Y. Sun, "Improved Motion Recognition using Motion Taxonomy", (Submitted to IROS 2020)

Robert Bishop, P Dean, Dwayne Smith, Ph.D. Dean, Office of Graduate Studies

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