UNIVERSITY OF SOUTH FLORIDA

Defense of a Master's Thesis

Developing Reinforcement Learning Algorithms for Robots to Aim and Pour Solid Objects by

Haoxuan Li

For the MSCS degree in Computer Science

Pouring is one of the most commonly executed tasks in our daily lives. We propose a method that uses reinforcement learning algorithms to control the robotic arm to aim and pour solid objects into a target container and avoid spillage. The agents receive feedback from the environment at each time step and control the end-effector displacement and the rotation speed. The proposed solution can pour accurately into the target and minimize spillages. The model also can generalize to unseen objects.

Friday, March 4, 2022
9:00 AM
Online (Microsoft Teams)
Please email for more information
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THE PUBLIC IS INVITED

Examining Committee

Sun Yu, Ph.D., Major Professor Shaun Canavan, Ph.D. Yasin Yilmaz, Ph.D.

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

Disability Accommodations:

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