## UNIVERSITY OF SOUTH FLORIDA

## Defense of Master's Thesis

Trilateration-Based Localization in Known Environments with O Detection

by Valeria Salas

## For the MSO Regree in Computer Engineering

Many strategies for localization have been proposed, the majority of which rely on distance and estimates. The proposed approach is a method that domsleid singhagera localization techniques and the principle of trilateration to perform localization in a known indoor environ using a camera, the proposed system can detect custom objects using object detection is environment and calculate an approximation of the camera's position. To recognize the local input datasuch as the size of the environment and the coordinates and sizes of the object environment were given as input to the system together with the distance to such objects calculated by a previously calibrated distance gleatietotion al

Friday, October 22021 11:00AM

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THE PUBLIC IS INVITED

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