UNIVERSITY OF SOUTH FLORIDA

Defense of a Master's Thesis

Autonomous Monocular Obstacle Detection for Avoidance in Quadrotor UAVs
by
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For the MSCS degree in Computer Science & Engineering

The problem of autonomous UAVs is one which must be solved before full integration into the National Airspace can be achieved. This thesis deals with the real-time obstacle detection problem using a monocular vision-based approach. A software package implementing a simulated environment to be used for educational/research-based purposes is presented, using contour detection to solve the problem of obstacle detection for avoidance in quadrotor UAVs.

Thursday, May 16, 2019
11:00AM
ENB 337

THE PUBLIC IS INVITED

Examining Committee
Alfredo Weitzenfeld, Ph.D., Major Professor
Dmitry Goldgof, Ph.D.
Sriram Chellappan, Ph.D.

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

Dwayne Smith, Ph.D.
Dean, Office of Graduate Studies