

UNIVERSITY OF SOUTH FLORIDA

Defense of a Doctoral Dissertation

*Adaptive Region-Based Approaches for Cellular Segmentation of
Bright-Field Microscopy Images*

by

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

Microscopy image processing is an emerging and quickly growing field in medical imaging research area. This dissertation includes different region-based approaches to process microscopy images. The proposed approaches include methods for segmentation either as the whole suggested framework or the initial part of the framework for future feature extraction and classification. Specifically, we present a general segmentation method that works on histology images from different tissues and a comprehensive segmentation framework that segments overlapping cervical cells in cervical cytology Pap smear images.

Wednesday, May 10, 2017

2:00 pm

ENB 313

Examining Committee

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