

# UNIVERSITY OF SOUTH FLORIDA

## *Defense of a Doctoral Dissertation*

*Synthesis Techniques for Sub-threshold Leakage and  
NBTI Optimization in Digital VLSI Systems*

by  
*Shilpa Pendyala*

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

*As CMOS technology is scaled down, leakage and reliability concerns became predominant in deep submicron VLSI designs. This research proposes novel techniques to achieve leakage and NBTI optimization with negligible area, delay and power overhead.*

*Wednesday, October 21, 2015*

*12:00 PM*

*ENB 313*

## THE PUBLIC IS INVITED

### Examining Committee

Andrew Hoff, Ph.D., Chairperson

Srinivas Katkoori, Ph.D., Major Professor

Nagarajan Ranganathan, Ph.D.

Hao Zheng, Ph.D.

Bibiche Geuskens, Ph.D.

Sanjukta Bhanja, Ph.D.

Gregory McColm, Ph.D.

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

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

### **Disability Accommodations:**

*If you require a reasonable accommodation to participate, please contact the  
Office of Diversity & Equal Opportunity at 813-974-4373 at least five (5) working days prior to the event.*