# UNIVERSITY OF SOUTH FLORIDA

## *Major Research Area Paper Presentation*

*G-SDBMS – a GPU-based Streaming Database Management System*
*by*
### *Hao Li*

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

*This research introduces a GPU-based Streaming Database Management System (G-SDBMS) aiming at dealing with tasks that involve processing massive streaming data. Modern GPUs with general programming capabilities are perfectly qualified in such scenarios by offering the most cost-effective computing platform to catch up with the data streams. The keys to develop G-SDBMS are Concurrent Kernel Processing, Multi-query Network, and Continuous Data Input on GPUs.*

*August 23, 2019*
*9 AM*
*ENB 337*

## THE PUBLIC IS INVITED

Examining Committee
Yicheng Tu, Ph.D., Major Professor
Adriana Iamnitchi, Ph.D.
Bo Zeng, Ph.D.
Kandethody Ramachandran, Ph.D.
Lingling Fan, Ph.D.
Srinivas Katkoori, Ph.D.

*Yu Sun, Ph.D.*
*Graduate Program Director*
*Computer Science and Engineering*
*College of Engineering*

*Sudeep Sarkar, Ph.D.*
*Department Chair*
*Computer Science and Engineering*
*College of Engineering*