UNIVERSITY OF SOUTH FLORIDA

Major Research Area Paper Presentation

Parallel computing of contour tree and persistent pairing of Reeb graph

by

Junyi Tu

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

The emerging field of Topological Data Analysis(TDA) combines theory of persistent homology, efficient algorithms and visualization techniques to tackle the big data challenge. The power of TDA lies in its multiscale view of data, which is robust to small perturbations in the data. In this presentation, we will discuss 1) our previous work on parallel computing of contour trees, 2) the ongoing work on persistent pairing of Reeb graphs and 3) future research directions.

April 23 2018 11:30AM – 12:30PM ENB 337

THE PUBLIC IS INVITED

Examining Committee
Paul Rosen, Ph.D., Major Professor
Les Piegl, Ph.D.
Yicheng Tu, Ph.D.
Zhuo Lu, Ph.D.
Dmytro Savchuk, Ph.D.

Miguel Labrador, 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

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.