

# UNIVERSITY OF SOUTH FLORIDA

## *Major Research Area Paper Presentation*

*Fast Viewshed Computing Algorithm on GPU*

by  
Faisal Qarah

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

*Viewshed computing and visibility analysis is the problem of finding visible areas on the map to a certain point-of-interest. Viewshed algorithms are widely used in GIS applications, games development, and in creating communication networks. However, current viewshed algorithms with high accuracy are suffering from poor performance compared to other algorithms that approximate the visibility ~~GPU~~ for efficient viewshed computing.*

Monday, April 20, 2020

3:00 PM

Online (Collaborate Ultra)

THE PUBLIC IS INVITED

### Examining Committee

Yicheng Tu, Ph.D., Major Professor

Adriana Iamnitchi, Ph.D.

Yan Zhang, Ph.D.

Zhuo Lu, Ph.D.

Joni Downs, Ph.D.

*Yu Sun, Ph.D.*

*Graduate Program Director*

*Computer Science and Engineering*

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