UNIVERSITY OF SOUTH FLORIDA

Defense of a Master’s Thesis

Lost In The Crowd? Quantifying Inherent Node Anonymity In Large Social Graphs

by

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For the MSCE degree in Computer Science & Engineering

Releasing digital recordings of real social graph datasets exposes the participants to privacy violations. A safer approach to make real social network topologies available is to structurally anonymize them. Intuitively, the larger the graph, the easier for an individual to be “lost in the crowd”. However, as new topological structures emerge with increase in scale, those can expose individual nodes in ways that smaller structures do not. We introduce metrics for measuring the privacy in large-scale social networks independent of attack models.

May 10, 2017
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THE PUBLIC IS INVITED

Examining Committee

Adriana Iamnitchi, Ph.D., Major Professor
John Skvoretz, Ph.D.
Paul Rosen, Ph.D.

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

Dwayne Smith, Ph.D.
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