CD: Lecture 3 (13-July-2021 Tue)

SWS3001: CD
LeongHW (梁汉槐)

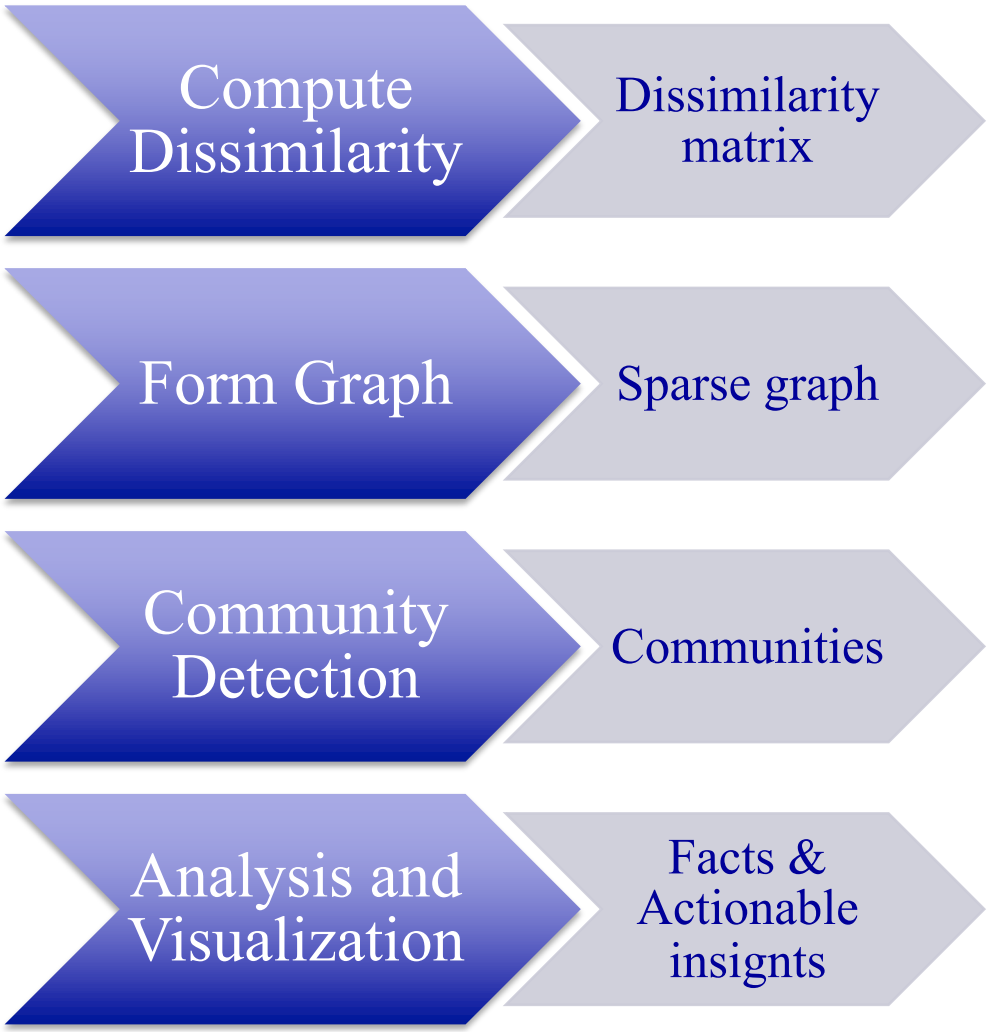
"MST and CD Algorithms"

- Lecture Topics and Readings
  - Overview of CD Algorithms
  - MST Algorithm
  - CD Algorithms – SLC, GN
  - Creative Problem Solving? (maybe)

Don't just know an algorithm
Analyse why it works, how it works,
what are its good points? bad points?

Hon Wai Leong, NUS

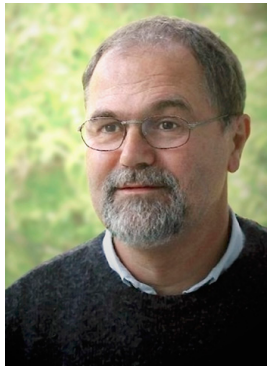
Your CD Workflow…



On Complicated Algorithms

Robert E. Tarjan, Princeton and HP Fellow,
ACM Turing Award Interview, 1986

"Once you succeed in writing the programs for [these] complicated algorithms, they usually run extremely fast. The computer doesn't need to understand the algorithm, its task is only to run the programs."



Stefan Naehar
Kurt Mehlhorn, MPI

"We programmed them already. They are in LEDA."

Thank you.

Q & A

School of Computing