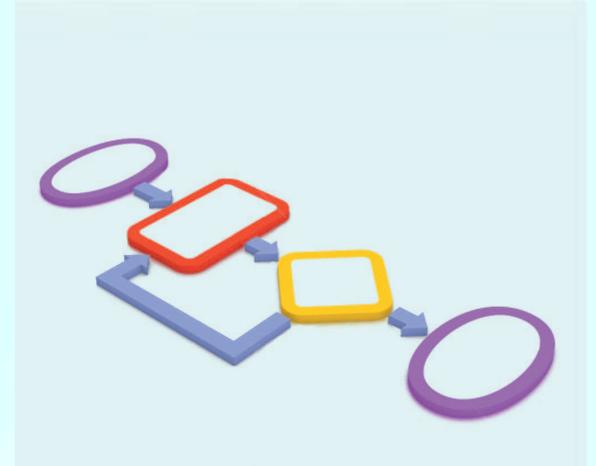# Roberto Solis-Oba

Algorithms:

- Sequential
- Parallel
- Distributed
- Randomized
- Parameterized
- Approximation Algorithms
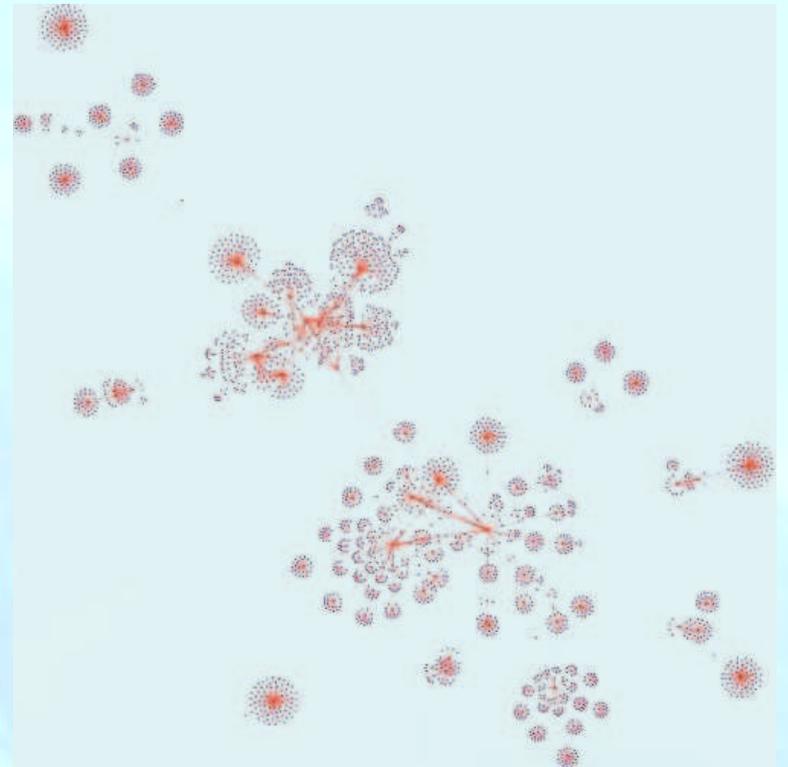
"*Algorithm* is the most fundamental concept of Computer Science."

— *Greg Frederickson*

"*Algorithmics* is at the core of Computer Science"

— *David Harel*

Applications:

- Combinatorial Optimization

- Graphs and Networks

- Scheduling

- Internet Algorithmics

- Computational Biology

Course: CS4445/9544 Analysis of Algorithms II

Topics

This course focuses on the design and analysis of efficient algorithms for optimization problems.

- Maximum Flows
- Approximation Algorithms
- Randomized Algorithms
- Online Algorithms
- Parallel Algorithms