Michal Dory Technion

Distributed Approximation of k-edge-connected Subgraphs

Abstract:

In the minimum k-edge-connected spanning subgraph (k-ECSS) problem the goal is to find the minimum weight subgraph resistant to up to k-1 edge failures. This is a central problem in network design, and a natural generalization of the minimum spanning tree (MST) problem. In this talk, I will present fast randomized distributed approximation algorithms for k-ECSS in the CONGEST model.