Markov Chains, Network Synchronization, and Random Walks on Matrices:

A Unified Perspective

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Markov chains remain one of the most useful models for probabilistic decision processes. In a related way, deterministic directed network models are being increasingly utilized to understand and model large data sets. Connecting these two approaches in a generalization of a famous theorem of Birkhoff concerning matrix decompositions, which will be "experientially" presented. Results, open problems, and possible future research will be discussed.

Friday, September 9th, 2016, 3:00-4:30 p.m.

Vadalabene Center, Room 2007

