CS5613 Computer Networks and Distributed Processing
SPRING 2011

Contents: Analysis of multi-agent distributed systems using graph theory

Instructor: S. Lakshmivarahan, Office: DEH - 230

Class Time: T-TH 10.30 - 11.45 AM, Place: FH - 336

Office Hours: T-TH 9.00 to 10.00 am
T-TH 3.00 pm to 3.30 pm

Topics to be covered:

1. Introduction to Network Science
2. Overview of basic concepts from Graph theory
3. Algebraic and spectral graph theory
4. Analysis of Multi-agent coordination
5. Random walks on graphs
6. Applications to social networks, formation, network of robots, etc.


Final Exam: Friday, May 13, 2011. From 8.00 AM to 10 AM

Grading: Assignments – 6-8, one mid-term, and a final. Assignment –30%, midterm 30%, final 40%. Grading scale: A is 90 and above, B is from 80 to 89, C is from 70 to 79, D is from 60 to 69 and below 59 is F.

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