

CS396 Recent Advances in Distributed and Networking Systems

Spring 2007

Time/Room: Tuesday/Thursday 1:10pm-2:25pm, 308 Featheringill Hall

Instructor: Yuan Xue (yuan.xue@vanderbilt.edu)

Office: 383 Jacobs Hall, Phone: 615-322-2926

Office hours: Tuesday/Thursday 2:30pm-3:30pm or by appointment.

TA: Yanchuan Cao (yanchuan.cao@vanderbilt.edu)

Office: 385 Jacobs Hall, Phone: 615-322-3233

Office hours: by appointment

Web: <http://vanets.vuse.vanderbilt.edu/~xue/cs396spring07/index.html>

OAK: <http://www.vanderbilt.edu/oak>

Course description

This course introduces the recent research trend, hot topics and new challenges in the area of distributed and networking systems. The paper selection balances empirical system-oriented works with analytical theoretical results. Example topics include wireless mesh networks, overlay networks, large-scale content distribution, network measurement and modeling, emerging application and services.

Objective

Through in-depth case studies on classic and recent research papers and semester-long innovative research projects, this course aims to help students to foster their research perspectives and abilities, as well as improve their presentation and writing skills.

Credit: 3 credit hours

Prerequisite: background in computer networks (e.g. cs283 or equivalent).

Grading policy:

- Participation: 10%
- Presentation: 10%
- Review: 10%
- Project: 70%
 - Background survey 20%
 - Design report 20%
 - Final report 20%
 - Presentation/Poster 10%