CIS6930, Spring 2017
Special Topic: Data Center Resource Management for Cloud Computing

Instructor: Prof. Ye Xia

In this course, we will examine recent research topics on cloud computing, in particular, resource management for cloud computing. The course will be structured in a research seminar style. Students will form research groups. Each group will identify and survey a major research topic on cloud computing and give presentations on what they have learned. Each group will develop a research project with original ideas, work on the ideas and write a paper with publishable quality.

Benefits: Students will learn several advanced topics in cloud computing research and practice. More importantly, students will learn how to approach a new subject, innovate and work toward original results.

Prerequisite: Knowledge on computer networks at the level of CNT5106C.

Requirement:
There will be no exams. The main requirement is a course project. Each student will also make several presentations. Attendance is required and will matter in the final course grade.

Regarding the course project: Throughout the semester, students will work toward a course project. It should be research-oriented and contain original ideas on a chosen topic in cloud computing. I will give a list of suggested topics. Students are also welcome to choose their own projects. Each student group will turn in a paper of publishable quality, 6-8 page long in the IEEE conference format. Each research group will have three students.

Grading:
Project: 60%
Presentation: 30%
Attendance and Class Participation: 10%

Class Schedule:
Tuesdays: period 2-3, 8:30-9:20am, 9:35-10:25am
Thursdays: period 3, 9:35-10:25am
Classroom: TUR L011

Office Hours:
Fri. 12 – 2 pm, E538

Textbook: None required.
We will use materials from published papers.

Useful Reference Books: