EE380 - Stanford EE Colloquium on Computer Systems

Syllabus

Catalog Description

Invited lectures on current research in the design, implementation, analysis, application and use of computer systems from device physics and integrated circuits to operating systems and programming languages, to individual and clustered systems, computer science theory, and the application and use of computers in a wide variety of contexts.

Prerequisites

There are no specific prerequisites but participants without substantial knowledge of electrical engineering and computer science may be out of their depth. This lecture series (and the associated course) is intended for graduate and advanced undergraduates in CS and EE, faculty, staff, and industrial researchers and practitioners.

Time and Location

Live Lectures (usually available as video lectures):
- Regular series: W4:15-530PM Fall, Winter, and Spring; location varies but typically in the Gates Lecture Halls: B03 and B01.
- Special series: Occasional additional and optional lectures M4:30-5:30PM and/or F4:30-5:45PM as announced.

Video Lectures:
- Webcast live and archived for on-demand viewing during the Quarter at Stanford.
- Most Live Lectures are published to YouTube a day or two following presentation.
- Most talks are live streamed (webcast) during the presentation.

Summer Session Lectures:
The Summer Quarter Colloquium is online video only and consists of self-paced and self-selected lectures chosen from our backlist using the YouTube posted videos.

Instructors

Dennis Allison, allison@stanford.edu
Office hours: by appointment

J. Andrew Freeman, anamax@earthlink.net
Office hours: by appointment

Teaching Assistant

No teaching assistant.
**Grading**

EE380 is a S/NC one unit course. Nominal assignments (one per lecture, ten lectures) and a course evaluation, all submitted over the web, are required to successfully pass the course. Incomplete grades (“I” grades) are given only in dire circumstances. All work must be completed on or before the last day of finals.

**Expected Workload**

EE380 conforms to the Western Association of Schools and Colleges credit guidelines as published in the Stanford Bulletin. EE380 is a one credit class. Students are expected to devote three hours per week: the one-hour lecture with fifteen minutes (or more) of questions following. A short essay assignment (30 mins or less) completes the formally assigned work; the remaining time is to be used by the student to explore the topic on their own. Speakers are urged to provide pointers to additional readings on their topic and are encouraged to post their slides. Students are urged to attend the lectures live and to come prepared to ask substantive questions.

**Homework**

A short paragraph or two discussing each lecture must be submitted using the forms provided at the course website, http://ee380.stanford.edu. Following the last lecture, an evaluation form for the class must be submitted.

**Exams**

There are no examinations for this course.

**Textbooks**

There are no textbooks for this course.

**Lecture Notes**

Abstracts are posted for each of the seminar presenter's talks on the website. When possible, we also post a copy of the presenter's slides following the lecture and, occasionally, other relevant materials.

**Website**

http://ee380.stanford.edu The website is open to anyone, but you must log in with a Stanford ID to submit or check assignments. We maintain an open mailing list for announcements.

**Other Websites**

Within any particular Quarter, video lectures are published by SCPD labeled by the lecture sequence in the Quarter (https://mvideos.stanford.edu/Seminars/). The video lectures are also published on YouTube.com in the Stanford Channel a day or two following the live presentation.
Schedule of Speakers

The current lecture schedule is available on the Colloquium website, http://ee380.stanford.edu. Because the course content consists of lectures from outside speakers, it is subject to change without notice. Occasionally we need to substitute an archival talk for the live talk because the live talk contains material which is inappropriate for broad video distribution. While we try to announce such substitutions, it is not always possible to do do.

Optional Lectures

From time to time we may schedule a lecture outside of the regular course time and place. These lectures are optional and are not considered for grading purposes.