CSE 521S Syllabus

Objectives

Upon completion of this course, students should be able to do the following:

- Understanding software architecture of Internet of Things.
- Evaluating wireless sensor network technologies and protocols.
- Analyzing sensor data to extract information.
- Applying Internet of Things to diverse domains from healthcare to industry.

Topics

- Embedded Operating Systems
- Wireless Sensor Networks
- Data Analytics and Machine Learning
- Cloud and edge computing
- Internet of Medical Things and Mobile Health
- Industrial Internet of Things
- Smart Infrastructure
- Cyber-Physical Systems

Grading

- Projects 60%
  - Proposal and presentation: 10%
  - Demo 1: 5%
  - Demo 2: 5%
  - Final demo & report: 40%
- Critiques 30%
- Participation 10%

Note: Scores will be curved.

Collaboration Policy

- All critiques should be completed independently. No collaboration is allowed.
- The project proposal, presentations, demos and report should be completed collaboratively by the project team.

Office Hours and Contact Information

Please make appointments by email.

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