

CSCI780-01 Wireless Sensor Networks

--- Fall 2009

Instructor

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Office hours: 2:00PM~2:50PM Monday/Wednesday/Friday; Please also feel free to drop by my office at any other time or just send me emails.

Class

Time: 1:00PM~1:50PM, Monday/Wednesday/Friday

Location: M-S Hall 139

Course Discription

Recent publications are read and analyzed for developing a solid understanding of fundamental research issues in wireless sensor networks, like low power radio communication and networking, accurate sensing and classification, crowded spectrum and performance assurance, data aggregation, time synchronization, security, cyber-physical systems, etc. Presentations are given by the instructor and students followed by discussion. Students work on research projects for gaining hands-on experience and developing original work for conference submission.

Required Book

No textbook is required. Instead, we will study a large number of technical papers from premium sensor network conferences and journals.

Required Work

There is no homework or quiz or exam.

Each student is required to present one or multiple research papers that they choose, for building their presentation skills.

Students are required to propose, design and implement sensor network projects on real sensor devices or simulators. A final write-up is needed for each project in the form of a publishable academic paper.

It is expected that students attend all classes.

Grading: project 40%, presentation 30%, paper critique 15%, attendance and discussion 15%;

All students should follow the William and Mary Honor System that can be found in your student handbook.

Information Dissemination

Course materials (such as paper reading list and presentation schedule) are posted in the class's blackboard in <https://blackboard.wm.edu/>. Existing materials in the class's blackboard may be updated and new materials may be added later, in support of the course. They should be considered official components of the course, and you should check them frequently.