Advanced Topics in Data Mining

FALL 2016
Classes Meet T/Th 2:10-3:25 p.m. at SMC 701

INSTRUCTOR CONTACT

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Office Hours: TBD.

COURSE DESCRIPTION

This course will introduce advanced techniques in data mining and machine learning. Students will be exposed to the state of the art, learn advanced techniques, and build up basic literature review and research skills.

GRADING

- Reading assignments: 20%
- Presentations: 30%
- Projects: 40%
- Participation: 10%
- No Exams

TEXTBOOKS / READING MATERIALS

Lecture notes and research papers will serve as study materials. These will be posted on Blackboard.

TOPICS AT A GLANCE

This course will be structured into four basic modules:

- Graph Linkage Analysis (8 classes)
- Graphical Models (7 classes)
- Spatiotemporal Data Mining (7 classes)
- Causal Pattern Mining (7 classes)

Each module consists of a lecture with basic introduction, readings presentations and discussions, and a mini-project.