

CISC849-010: Applied Game Theory (Syllabus) Fall 2020

Description: Game theory provides us with a set of effective tools to understand complicated interactions among many independent and self-interested economic agents in distributed systems, clouds, and cyber-physical systems. In this course, we will survey recent research at the interface between game theory and these systems. Students will be introduced to key concepts of game theory and its applications. We will also identify open research challenges and directions. Students will be evaluated based on their paper presentations, class participation, and a final project (no midterm/final exams).

Prerequisites: CISC621 Algorithm Design and Analysis.

Location: Online

Time: TuTh 2:00PM - 3:15PM

Instructor: Dr. Lena Mashayekhy
Office: 434 Smith Hall
<https://www.eecis.udel.edu/lena/>
Email: mlena@udel.edu (email subject line includes "CISC849")
Office hours: by appointments

Course Structure: This is a seminar course in which we will discuss several recent research papers. Students will be required to read the papers in advance, write reviews, present papers, participate in discussions, and complete a research project. By midnight before each class students are required to submit a review on the papers that will be discussed in the class next day. Details on the course structure will be provided during the first week of classes.

Readings: No textbook is required for this class. The list of papers will be provided in advance on the course website.

Grading: Class activities and Participation: 20%
Paper reviews/HWs: 20%
Presentations: 20%
Project: 40%

Overall: A(100-95), A-(94-90), B+(89-87), B(86-83) B-(82-80),
C+(79-77), C(76-73), C-(72-70),
D+(69-67), D(66-63), D-(62-60), F(bellow 60).

- Attendance Policy:** Attendance in the lectures is mandatory. If you miss a class (for a good reason), it is your responsibility to contact me before the class, or soon after the class as possible.
- Late Policy:** Paper reviews and projects must be handed in by due time. No late assignments will be accepted unless compelling reasons can be supplied and verified. Late assignments will receive no grade.
- Scholastic Dishonesty:** The University expects a student to maintain a high standard of individual honor in his/her scholastic work. Unless otherwise required, each student is expected to complete his or her assignment individually and independently. Although study together is encouraged, the work handed in for grading by each student is expected to be his or her own. Any form of academic dishonesty will be strictly forbidden and will be punished to the maximum extent.
- Special Accommodation:** If you feel that you may need an accommodation based on the impact of a disability, please contact me to discuss your specific needs. Additionally, you will need to contact the Office of Disability Support Services (ODSS) for coordination of your academic accommodations. The ODSS is located at 240 Academy Street, Alison Hall Suite 130, Phone: 302-831-4643.

The instructor reserves the right to alter this syllabus as necessary.