Instructor: Ruoming Jin

Mondays 5:30PM-8:15PM; Rm. MSB 276
Office Hours (MSB 264): Mondays 4:00PM-5:00PM

Prerequisites

CS 4/56101 Algorithms
CS 4/53005 Introduction to Database Systems
CS 33001 Data Structures
or Consent of the Instructor

Course Overview

This course teaches the fundamental concepts and techniques of data mining. We will cover a set of interesting topics, including pattern discovery/association rule mining, clustering, classification, information theory, decision theory/Bayesian inference, graphical models, kernel methods/support vector machine, etc.

Each student will be expected to present two papers and do a project on selected topics. There will be neither homework nor exam. There will be two or three in-class exercise-sessions.

Textbook

P.-N. Tan, M. Steinbach, and V. Kumar, Introduction to Data Mining, Addison Wesley, 2005.
Christopher M. Bishop, Pattern Recognition and Machine Learning, Springer, 2006

Other references:

Required reading:


Additional materials will include papers supplied by the instructor

Requirements & Grading Policy

A student's grade will be determined as a weighted average of project (40%), class participation (20%), and presentation (40%).

Accessibility:

University Policy 3342-3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. 

Please note, you must first verify your eligibility for these through Student Accessibility Services (contact 330-672-3391 or visit www.kent.edu/sas for more information on registration procedures).

Registration Requirement:

The official registration deadline for this course is September 7, 2008. University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashFast) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.
ADMINISTRATIVE POLICY AND PROCEDURES REGARDING
STUDENT CHEATING AND PLAGIARISM

Condensed Version

For complete policy and procedure go to www.kent.edu/policyregister 3342-3-01.8.

Cheating and plagiarism constitute fraudulent misrepresentation for which no credit can be given and for which appropriate sanctions are warranted and will be applied.

The university affirms that acts of cheating and plagiarism by students constitute a subversion of the goals of the institution, have no place in the university and are serious offenses to academic goals and objectives, as well as to the rights of fellow students.

"Cheat" means to intentionally misrepresent the source, nature, or other conditions of academic work so as to accrue undeserved credit, or to cooperate with someone else in such mis-representation. Cheating includes, but is not limited to:

1. Obtaining or retaining partial or whole copies of examinations, tests or quizzes before these are distributed for student use;

2. Using notes, textbooks or other information in examinations, tests and quizzes, except as expressly permitted;

3. Obtaining confidential information about examinations, tests or quizzes other than that released by the instructor;

4. Securing, giving or exchanging information during examinations;

5. Presenting data or other material gathered by another person or group as one's own;

6. Falsifying experimental data or information;

7. Having another person take one's place for any academic performance without the specific knowledge and permission of the instructor;

8. Cooperating with another to do one or more of the above;

9. Using a substantial portion of a piece of work previously submitted for another course or program to meet the requirements of the present course or program without notifying the instructor to whom the work is presented; and

10. Presenting falsified information in order to postpone or avoid examinations, tests, quizzes, or other academic work.

“Plagiarize” means to take and present as one’s own a material portion of the ideas or words of another or to present as one’s own an idea or work derived from an existing
source without full and proper credit to the source of the ideas, words, or works. As defined, plagiarize includes, but is not limited to:

a. The copying of words, sentences and paragraphs directly from the work of another without proper credit;

b. The copying of illustrations, figures, photographs, drawings, models, or other visual and nonverbal materials, including recordings of another without proper credit; and

c. The presentation of work prepared by another in final or draft form as one's own without citing the source, such as the use of purchased research papers.

**Academic Sanctions**

The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. Kent campus instructors shall notify the department chairperson and the student conduct office each time a sanction is imposed. Regional campus instructors shall notify the regional campus dean and the student conduct officer each time a sanction is imposed. Regional campus student conduct officer shall notify the Kent student conduct office each time a sanction is imposed by a regional campus Instructor. The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. In those cases the instructor may:

1. Refuse to accept the work for credit; or

2. Assign a grade of "F" or zero for the project, test, paper, examination or other work in which the cheating or plagiarism took place; or

3. Assign a grade of "F" for the course in which the cheating or plagiarism took place; and/or;

4. Recommend to the department chair or regional campus dean that further action specified in the rule be taken. The department chairperson or regional campus dean shall determine whether or not to forward to the academic dean or to the vice president for the extended university a recommendation for further sanction under this rule.

**Academic Appeals**

The general principle that applies to the following procedures is that an appeal is directed to the administrative level immediately above the unit from which the appeal emanates.

Appeals are limited to the following reasons:

a. The decision is arbitrary or unreasonable,

b. The decision resulted from a procedural error,

c. The decision is not in accordance with the facts presented,

d. New information is available which may suggest modification of the decision.

For complete policy and procedure go to [www.kent.edu/policyregister 3342-3-01.8](http://www.kent.edu/policyregister 3342-3-01.8).