Fall 2006

CS 705: Introduction to Data Mining

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Description: Data mining is concerned with the extraction of novel knowledge from large amounts of data. This course introduces and studies the concepts, issues, tasks, and techniques of data mining. Topics include data preparation and feature selection, association rules, classification, clustering, evaluation and validation, scalability, spatial and sequence mining, privacy, and data mining applications. 3 hours lecture, 2 hours lab.

Prerequisite: CS 605 (Introduction to Database Systems), or CS 609 (Introduction to AI), or equivalent, or with consent of the instructor. Implicitly, CS 600 (Data Structures) is also required.

Instructor: Dr. Guozhu Dong. 430 RC.

Phone & Email: (937)-775-5066, guozhu.dong@wright.edu

Class details: 4:10 – 5:25, TTh, 168 Rike Hall

Office hours: 3:00 - 3:50, TTh. Use e-mail for short questions.


Introduction to Data Mining, Pang-Ning Tan, Michael Steinbach, Vipin Kumar, Addison Wesley, 1st Edition


Resources: Class directory: Up to date slides will be provided in class directory /nfs/ecsnasl/users/cs/gdong/705 on gandalf or gamma.

Students may find this webpage useful: http://www.kdnuggets.com/, especially its pointers to datasets.

There are many Java programs for data mining at www.cs.waikato.ac.nz/ml/weka.

Grading: Homeworks: 103, Midterm: 253; Final: 353; Projects 303.

Final grade: A=[90,100), B=[80,90), C=[70,80), D=[60,70), F=[0,60).

Handouts: Handouts, and other course material will be distributed in class. It is the students' responsibility to collect them. The instructor plans to make these, plus slides masters, available in the course directory.

Important dates:

10/3, in class midterm.

5:45 – 7:45, Tuesday, 11/14/06: Final.