Data Mining

Math 166 / CSCI 145 - Data Mining

Mondays Wednesdays Fridays - Spring 2015 @ Claremont McKenna College

Data mining is the process of discovering patterns in large data sets using techniques from mathematics, computer science and statistics with applications ranging from biology and neuroscience to history and economics. The goal of the course is to teach students fundamental data mining techniques that are commonly used in practice. The course is designed to be applicable and fulfilling for both strongly motivated students who have taken Linear Algebra and advanced mathematics/computer science majors.
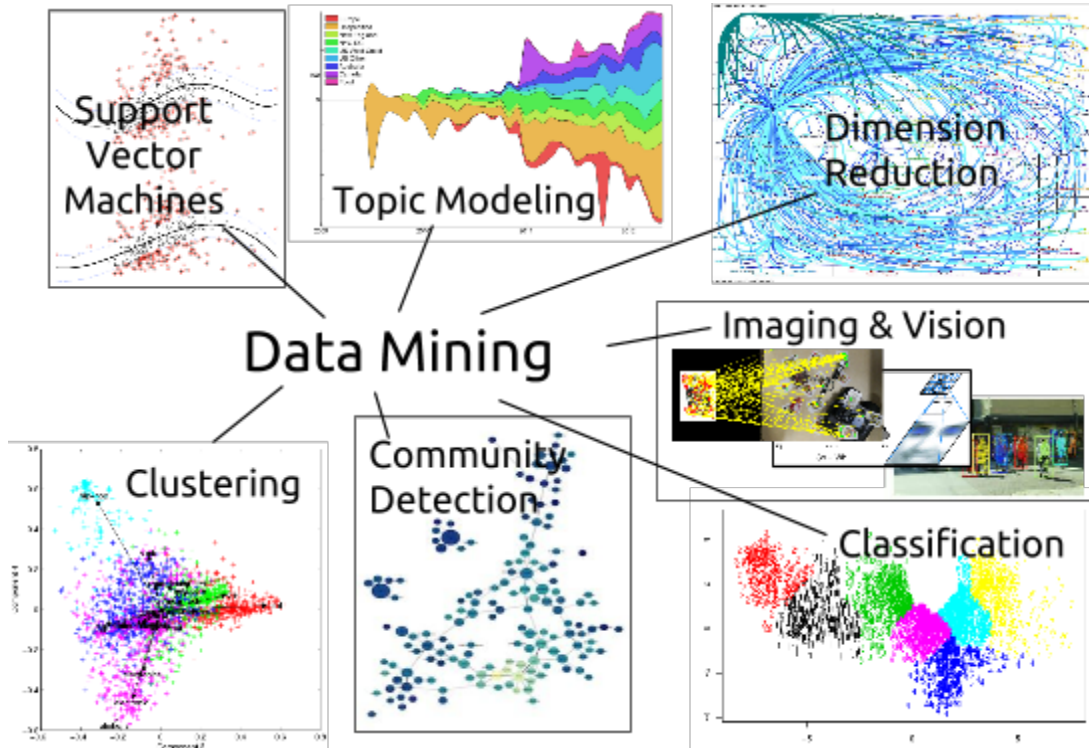
Homework: $\frac{1}{3}$ mathematical + $\frac{1}{3}$ computational + $\frac{1}{3}$ theoretical (your choice of advanced CS or math theory)
Projects: (real data + real problems) ÷ small groups of real people = real fun projects

Prerequisites: MATH 60 (Linear Algebra); a proof based course above 100 or CSCI 62 (Data Structures and Advanced Programming); or instructor's consent.
Note: *Familiarity with a computer programming language (C++, Java, Matlab, Python or R)*
is suggested but not required.
Website : www.cmc.edu/pages/faculty/BHunter/datamining
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