Machine Learning
Chapter 0. Orientation

Machine Learning

- Instructor: T. Murata (room E503, West8 building, murata @ cs.titech.ac.jp)

- Score：based on quizzes (every week) and assignments (twice or three times)

- URL: www.ai.cs.titech.ac.jp/lecture/ml
  - teaching materials are available online

- Caution: some classes are not on Mondays
  - Nov. 6(Thu), 2014
  - Nov. 26(Wed), 2014
  - Jan. 15(Thu), 2015

Textbook

- Data Mining -- Practical Machine Learning Tools and Techniques with Java Implementations (Third Edition), Witten and Frank, Morgan Kaufmann

- http://www.cs.waikato.ac.nz/ ~ml/weka/book.html
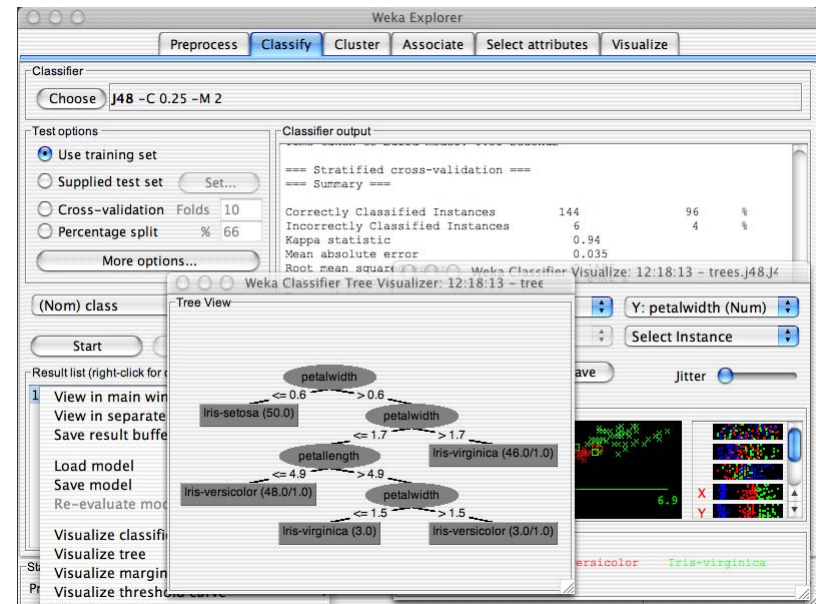
Goal of this course

- Learn methods for mining real-world data using Weka (a data mining tool)

<Challenges>

- Several methods of different properties (decision trees, rules, naïve bayes, regression, instance-based learning …)

- Imperfect real-world data (missing data, noise, few available data …)

Weka

- Open-source data mining tool developed by Waikato University, New Zealand (Waikato Environment for Knowledge Analysis)

- GUI for interactive data mining

- http://www.cs.waikato.ac.nz/~ml/weka /index.html

About this course

- <u>I will not accept assignments written in Japanese.</u>

- Non-CS students, undergraduate students, YSEP students and ACAP students are also welcomed.

- Copying other students' assignments is prohibited. "Similar" assignments will be rejected.