Advanced Data Mining with Weka

Department of Computer Science
University of Waikato
New Zealand

weka.waikato.ac.nz
What’s the course about?

❖ Data Mining
  – Using your data to make predictions

❖ Weka
  – Open source software tool
  – Developed at The University of Waikato

❖ Sequel to Data Mining with Weka
   and More Data Mining with Weka
The Waikato data mining team

Ian Witten (Class 1)
Geoff Holmes (Lesson 1.6)
Albert Bifet (Class 2)
Bernhard Pfahringer (Lesson 2.4)
Tony Smith (Lesson 2.6)

Eibe Frank (Class 3)
Pamela Douglas (Lesson 3.6)
Mark Hall (Class 4)
Mike Mayo (Lesson 4.6)
Peter Reutemann (Class 5)
What will I learn?

- Mining time series data
- Evolving data streams
- Big data: Moa
- Big data: cluster computing
- Accessing (e.g.) R from Weka
- Python scripting from Explorer
- Invoking Weka API from Python
Data mining applications

- Soil sample analysis
- Functional MRI data
- Bioinformatics application
- 2D image processing
- Analyzing Twitter feeds
What will I need?

- for experienced Weka users
  - e.g. have done previous 2 courses
- computer to install Weka (and Moa)
- internet, Google account
- a few hours/week for 5 weeks
  - activities are more demanding than previous MOOC
- no mathematics or programming experience needed
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