

Program of the Summer Data-Mining School

*Department of Knowledge Engineering, Maastricht University
Bouillonstraat 8-10, Maastricht
August 29 – September 1, 2011*

Monday August 29

08:30 – 09:00 Registration *Bouillonstraat 8-10, room 0.001*

09:00 – 09:30 Lecture: *Knowledge discovery and data mining* (Evgueni Smirnov)
Bouillonstraat 8-10, room 0.015

09:30 – 10:45 Lecture: *Decision-tree induction and rule induction* (Kurt Driessens)
Bouillonstraat 8-10, room room 0.015

10:45 – 11:15 Coffee / tea break *Bouillonstraat 8-10, room 0.001*

11:15 – 12:45 Lab 1: *Introduction to the Weka data-mining environment. Experiments with decision trees and decision rules on simple datasets* (Maathijs Moed)
Bouillonstraat 8-10, room 1.001

12:45 – 14:00 Lunch

14:00 – 15:15 Lecture: *Evaluation of learning models* (Kurt Driessens)
Bouillonstraat 8-10, room 0.015

15:15 – 15:45 Coffee/tea break *Bouillonstraat 8-10, room 0.001*

15:45 – 17:00 Lab 2: *Evaluation of decision trees and decision rules* (Maathijs Moed)
Bouillonstraat 8-10, room 1.001

Tuesday August 30

10:00 – 11:15 Lecture: *Instance-based learning and Bayesian learning* (Evgueni Smirnov)
Bouillonstraat 8-10, room 0.015

11:15 – 11:30 Coffee / tea break *Bouillonstraat 8-10, room 0.001*

11:30 – 12:45 Lab 3: *Experiments in text classification using the nearest neighbour algorithm and the naïve Bayesian classifier* (Georgi Nalbantov, Evgueni Smirnov)
Bouillonstraat 8-10, room 1.001

13:15 – 14:00 Lunch

- 14:00 – 15:15 Lecture: *Feature selection, Dimensionality Reduction and Clustering*
(Georgi Nalbantov)
Bouillonstraat 8-10, room 0.015
- 15:15 – 15:45 Coffee/tea break *Bouillonstraat 8-10, room 0.001*
- 15:45 – 17:00 Lab 4: *Experiments with decision trees and decision rules on the caravan dataset*
(Maathijs Moed, Georgi Nalbantov)
Bouillonstraat 8-10, room 1.001

Wednesday August 31

- 10:00 – 11:15 Lecture: *Regression* (Georgi Nalbantov)
Bouillonstraat 8-10, room 0.015
- 11:15 – 11:30 Coffee / tea break *Bouillonstraat 8-10, room 0.001*
- 11:30 – 12:45 Lab 5: *Regression analysis on economic and financial data*
(Maathijs Moed, Georgi Nalbantov)
Bouillonstraat 8-10, room 1.001
- 12:45 – 14:00 Lunch
- 14:00 – 15:15 Lecture: *Association rules* (Evgueni Smirnov)
Bouillonstraat 8-10, room 0.015
- 15:15 – 15:45 Coffee/tea break *Bouillonstraat 8-10, room 0.001*
- 15:45 – 17:00 Lab 6: *Experiments with association rules on a market-basket dataset*
(Maathijs Moed)
Bouillonstraat 8-10, room 1.001

Thursday September 1

- 10:00 – 11:15 Lecture: *Ensemble Methods* (Evgueni Smirnov)
Bouillonstraat 8-10, room 0.015
- 11:15 – 11:30 Coffee/tea break *Bouillonstraat 8-10, room 0.001*
- 11:30 – 12:45 Lab 7: *Final experiments on the caravan data set*
(Maathijs Moed and Evgueni Smirnov)
Bouillonstraat 8-10, room 1.001
- 12:45 – 14:00 Lunch
- 14:00 – 16:00 Discussion: *How can I apply data mining in my research domain?*
(Evgueni Smirnov, Kurt Driessens, Georgi Nalbantov, and Maathijs Moed)
Bouillonstraat 8-10, room 0.015