

SCHOOL OF MATHEMATICAL AND COMPUTER SCIENCES

READING LIST 2007/2008

Data Mining & Machine Learning F2.4DN1/F2.9DM1

Nick Taylor and Philippe De Wilde

Berry, M.J.A. and Linoff, G.S.

“Data Mining Techniques for Marketing, Sales and Customer Relationship Management”, 2nd edition
John Wiley, 2004

Comprehensive coverage of the business of, and surrounding, data mining. Includes many real-life examples.

De Castro, L.N. and Timmis, J.

“Artificial Immune Systems: A New Computational Intelligence Approach”
Springer-Verlag, 2002

Though not very polished, this text has to be cited as it is the only work on this latest machine learning paradigm to be inspired by biology.

Giudici, P.

“Applied Data Mining: Statistical Methods for Business and Industry”
John Wiley, 2003

A thorough treatment of data mining techniques from a statistical perspective. Includes half a dozen case studies.

Haykin, S.

“Neural Networks”, 2nd edition
Macmillan, 1999

A comprehensive coverage of the field of artificial neural networks.

Koza, J.R.

“Genetic Programming”
MIT Press, 1992

Although a bit dated, this tome provides a comprehensive coverage of genetic algorithms and other evolutionary computing techniques whilst concentrating on the evolution of code fragments and computer programs.

Mitchell, T.M.

“Machine Learning”
McGraw-Hill, 1997

A thorough review of the key machine learning techniques used in data mining.

Neapolitan, R.E.

“Learning Bayesian Networks”
Prentice Hall, 2004

An excellent text on this increasingly popular approach to machine learning under uncertainty.