



Bayesware™ Discoverer

Knowledge Discovery using Bayesian Networks



Bayesware
Discoverer

Bayesware Discoverer is a program able to automatically discover causal probabilistic models from databases using Bayesian networks. This is a short technical fact sheet of the program's features. For more information, visit our website at www.bayesware.com, or send an email to discoverer@bayesware.com.

Overview

Bayesware Discoverer is the first Data Mining and Knowledge Discovery product based on the emerging technology of Bayesian networks. Bayesian networks are one of the most promising technology emerged from the past decade of Artificial Intelligence research and they are currently successfully powering large scale applications around the globe.

Bayesware Discoverer brings this powerful technology to your Knowledge Discovery efforts and, with the Microsoft Windows® Edition, literally to your desktop. Bayesian networks offer a unified and intuitive framework to represent models of your data, and allow Bayesware Discoverer to automatically discover these models in your data. Their unified character allows you to compare different hypothesis and the intuitive nature of the graphical formalism of Bayesian networks makes the most sophisticated analytic methods available to decision makers.

Bayesware Discoverer is the result of over two year of intensive research and development. Built upon the experience of a research prototype distributed to over 3,000 users - including some of the foremost financial, pharmaceutical, and electronic companies in the world - Bayesware Discoverer deploys a brand new way of analysing your data. Blending together advanced Artificial Intelligence technology and sound statistical methods, Bayesware Discoverer automatically extracts the causal probabilistic model underlying your data and reports it to you as a network of dependencies. You can let Bayesware Discoverer autonomously discover the unforeseen interactions and evolutions within your data or use it as a sparring partner to verify your intuitions and challenge your assumptions.

Wizard-like interfaces will guide your through the most common tasks and, as you grow familiar with the program, you will have a wide range of options to get the flexibility your will require. With Bayesware Discoverer, your knowledge of your business is all you need to get a deeper understanding of your business and how to improve its performance.

Features

- Automated discovery of causal probabilistic networks from data.
- Simultaneous multiple models comparison.
- Handling of categorical data.
- Unsupervised discretization of continuous data.
- Handling of missing data.
- Classification and prediction.
- State-of-the-art clustering propagation algorithm.
- Naïve Bayes and Bayesian Network Classifiers.
- Batch prediction from large databases.
- Cross validation of generated models.
- Database editing, import and export facilities.
- Import and export to the BNF standard format.
- Point-and-click user interface.
- Wizard dialog interface to most common tasks.
- OpenGL multidimensional plotting.
- On-line connection to Microsoft® Excel, Microsoft® Access and Mathsoft S-Plus® via Dynamic Data Exchange (DDE) protocol.
- Context-sensitive and mouse-sensitive help.

Requirements

Operating system: Microsoft Windows 95/98/NT/2000.

Processor: Intel Pentium 300Mhz (minimum).

Hard Disk: 30 MB free space.

RAM: 128 MB (minimum).

Prices

Professional: 7,500\$ (50,000\$ site license) *.

Academic: 3,000\$ (26,000\$ campus license).

* Visit our website at www.bayesware.com for further pricing offers.