

Bayesian networks applied to credit scoring problems. A practical application [Redes bayesianas aplicadas a problemas de credit scoring. Una aplicación práctica]

Beltrán Pascual M.

Muñoz Martínez A.

Muñoz Alamillos T.

This paper analyses how to build an efficient classifier across Bayesian networks used in data mining. The purpose of using the Bayesian model is to improve credit scoring accuracy. The Bayesian approach, based on probability models, analyses risk by using the decision theory, yielding as a solution that action that maximizes the expected utility. Expert assessment may be included in the model. To show the superiority of the Bayesian approach, results obtained for real bank data are compared with those obtained with alternative parametric and non-parametric models.

© 2013 Asociación Cuadernos de Economía.

Bayesian networks

Credit scoring

Markov blanket

Multiclassifiers

ROC curve