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Naive Bayesian Rough Sets 3 fact, uses a threshold of 0 on the difference between the a posteriori and the a priori probabilities, or a threshold of 1 on the likelihood ratio; the rough Bayesian model uses a pair of arbitrary threshold values. However, the latter model does not address the problem of how to setting the threshold values.

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Naive Bayesian Rough Sets - University of Regina

A naive Bayesian classifier is a probabilistic classifier based on Bayesian decision theory with naive independence assumptions, which is often used for ranking or constructing a binary classifier. The theory of rough sets provides a ternary classification method by approximating a set into positive, negative and boundary regions based on an equivalence relation on the universe.

Naive Bayesian Rough Sets | SpringerLink

In this paper, we propose a naive Bayesian decision-theoretic rough set model, or simply a naive Bayesian rough set (NBRS) model, to integrate these two classification techniques.

(PDF) Naive Bayesian Rough Sets - ResearchGate

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The theory of rough sets provides a ternary classification method by approximating a set into positive, negative and boundary regions based on an equivalence relation on the universe.

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Naive Bayesian rough sets - CORE

TAN is a state-of-the-art extension of naive Bayes, that can express limited forms of inter-dependence among attributes. Rough sets theory provides tools for expressing inexact or partial dependencies within dataset. In this paper, we present a variant

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of TAN using rough sets theory and compare their tree classifier structures, which can

Selective Augmented Bayesian Network ... - Monash University

The elegant simplicity and apparent accuracy of naive Bayes (NB) even when the independence assumption is violated, fosters the on-going interest in the model. Rough Sets Theory has been used for different tasks in knowledge discovery and successfully applied in many real-life problems.

Data Classification Using Rough Sets and Naïve Bayes ...

Request PDF | RoughTree A Classifier with Naive-Bayes and Rough Sets Hybrid in Decision Tree Representation | This paper presents a semi-naive classifier named RoughTree, which is designed to ...

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RoughTree A Classifier with Naive-Bayes and Rough Sets

...

Diagnosis the Breast Cancer using Bayesian Rough Set Classifier
Ayad R. Abbas *, Marwa A. Shihab Department of Computer Science, University of Technology, Baghdad, Iraq Abstract Breast cancer was one of the most common reasons for death among the women in the world. Limited awareness of the seriousness of this disease, shortage number

Diagnosis the Breast Cancer using Bayesian Rough Set ...

An easy method can be obtained to evaluate the conditional probabilities by the Naive Bayesian rough set model proposed by Yao ... and PhD degrees from Xian Jiaotong University, Xian, China, in 1992, 1994, and 1996, respectively. He was at the University of North Texas, and the University of Regina, Canada, as a visiting scholar during 1998 ...

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A survey on rough set theory and its applications ...

In case of huge data sets and the data with higher dimensional space, Naive Bayesian may face the problems that get most class labels with costly and that the current classifying rules can't adapt the varied data. So, an incremental Naive Bayes algorithm based in rough-set dynamic Reduct has been brought up. The algorithm is shown as following: attributes of conditional attributions has been dynamic reduced based on rough set to get the minimum attributes. Then naive Bayesian method with reduced ...

Rough set-based Dynamic Reduct Bayesian classifier to ...

The Naïve Bayesian (NBayes) classification algorithm is based on a probabilistic model that incorporates strong (naïve) independence assumptions. It postulates that, given a response category $Y_k \in \{ W, D, L \}$, a particular characteristic assumed by a covariate X_j is independent of any other feature.

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Naive Bayesian - an overview | ScienceDirect Topics

Naive Bayesian classifier is widely used in machine learning because it is fast and easy to be implemented. Rennie et al. show that its performance is competitive with the state-of-the-art models like SVM while the latter has too many parameters to decide. Therefore, we choose the naive Bayesian classifier as the core of fine tuning.

A Hybrid Feature Selection Method Based on Rough ...

The naive Bayes text classification algorithm based on rough set in the cloud platform Yugang Dai and Haosheng Sun Northwest University for Nationalities, Key Lab of China's National Linguistic Information Technology Lanzhou, China _____ ABSTRACT

The naive Bayes text classification algorithm based on ...

Naive-Bayes is utilized to fuse uncertain information in order to

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classify the damage extent. 3.2.1. Attribute Reduction by Rough Set Theory. In practice, there is often a great deal of measurement data with a considerable number of attributes. Rough set theory is utilized to reduce redundant features and increase efficiency. In the RSNB method, the dynamic fingerprints of the suspected damage elements are represented in the form of a decision table .

Multidamage Detection of Bridges Using Rough Set Theory ...

This paper presents a semi-naive classifier named RoughTree, which is designed to alleviate the attribute interdependence problem of Naive Bayesian classifier. RoughTree uses the attribute dependence detecting measure in rough sets and splits the dataset into subspaces according to the selected attributes, which hold the maximum values by the attribute dependence measure.

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RoughTree A Classifier with Naive-Bayes and Rough Sets

...

Naive Bayesian classifier (NBC) is a simple and effective classification model, but its condition independence assumption is often violated in reality and makes it perform poorly. In our study, we attempt to improve the NBC model through the way of attribute selection based on rough set. The main idea of the improvement model is to select a closest approximate independent attributes subset and ...

A Selective Naïve Bayesian Classification Algorithm Based

...

By analyzing the classification principle and improvement of Bayesian and the Attribute Reduction of Rough Set, this paper proposed a Naïve Bayes algorithm that the attribute order reduction and weighting were improved simultaneously.

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Experiment results demonstrated that the proposed method performed well in classification accuracy.

A Weighted Naive Bayes Algorithm Based on the Attribute ...

2 A probability experiment is an action through which specific results (counts, measurements or responses) are obtained. Probability Experiments Example: Rolling a die and observing the number that is rolled is a probability experiment. The result of a single trial in a probability experiment is the outcome. The set of all possible outcomes for an experiment is the sample space.

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