

An Entropy Based Method For Resource Leveling

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An Entropy Based Method For

Methods Expression entropy model. For droplet datasets, the observed UMI count can be modeled as a NB random variable, which... Data simulation. We simulated droplet datasets with NB distribution. ... For each simulated dataset, the dispersion... Feature selection methods. The HVG method 11 ...

An entropy-based metric for assessing the purity of single ...

The ME based ICA method meets the perspective of a neural network by estimating the demixing matrix WME, which maximizes the entropy H(·) of the nonlinear outputs $z = g(y)$ of a neural network.

Entropy Method - an overview | ScienceDirect Topics

This study proposes a method, based on entropy theory, for constructing the bivariate distribution of drought duration and severity with different marginal distribution forms. By specifying constraints for drought duration and severity, the entropy-based bivariate distribution can be derived and then marginal distributions can be obtained accordingly.

Entropy-Based Method for Bivariate Drought Analysis ...

RNentropy: Entropy Based Method for the Detection of Significant Variation in Gene Expression Data An implementation of a method based on information theory devised for the identification of genes showing a significant variation of expression across multiple conditions.

RNentropy: Entropy Based Method for the Detection of ...

Entropy-based methods proposed in the past e.g. [8, 10, 15] deals with a massive spreads of old types of worms (not botnet-like) or different types of Distributed Denial of Service (DDoS) attacks in a high-speed networks.

An Entropy-Based Network Anomaly Detection Method

Employing the entropy theory, an entropy-based distribution for modeling annual rainfall maxima is derived, which is expected to apply across different time durations, climate zones, and distances from the Gulf.

Entropy-based method for extreme rainfall analysis in ...

In general, if some layers are weak enough, e.g., most of their activation are zeros, their entropy are relatively small. Hence, our entropy-based method can be used for evaluating the importance of each channel. A smaller score of H_j means channel j is less important in this layer, thus could be removed.

An Entropy-based Pruning Method for CNN Compression

In information theory, the entropy of a random variable is the average level of "information", "surprise", or "uncertainty" inherent in the variable's possible outcomes. The concept of information entropy was introduced by Claude Shannon in his 1948 paper " A Mathematical Theory of Communication ".

Entropy (information theory) - Wikipedia

Giffin and Caticha (2007) state that Bayes' theorem and the principle of maximum entropy are completely compatible and can be seen as special cases of the "method of maximum relative entropy". They state that this method reproduces every aspect of orthodox Bayesian inference methods. In addition this new method opens the door to tackling problems that could not be addressed by either the maximal entropy principle or orthodox Bayesian methods individually.

Principle of maximum entropy - Wikipedia

Based on the multi-level wavelet Shannon entropy, a method is proposed for single sensor fault location. T he method firstly uses a criterion of maximum energy-to-Shannon entropy ratio to select the appropriate wavelet base for signal analysis.

Multi-Level Wavelet Shannon Entropy-Based Method for ...

The main contribution of the proposed VAM method is that a new damage index (DI) is developed based on the multiscale permutation entropy (MPE) to post-process the modulated signals, since current DI for VAM method is no longer suitable for linear swept excitations.

New entropy-based vibro-acoustic modulation method for ...

Entropy Based Approach Multi-criteria Decision making The multi-criteria decision making (MCDM) is a very practical method in the real world, and have very significant effect on both theory and practical. The aim of the MCDM is to find the best alternative among the given criteria.

Entropy Based Multi-criteria Decision Making Method under ...

Research on NOFRF Entropy-Based Detection Method for Early Damage of Pillar Porcelain Insulator 1. Introduction. The pillar porcelain insulator is an insulating component that plays an important role in the power... 2. Theoretical Background. NOFRFs were derived from the Volterra series. Each order ...

Research on NOFRF Entropy-Based Detection Method for Early ...

An entropy-based method was used to first distinguish encrypted from non-encrypted traffic. For encrypted traffic, based on the results from the first phase, we designed a NN using three types of packet discriminators—packet length, inter-arrival time (IAT), and direction (forward and backward)—as input-layer parameters.

Practical evaluation of encrypted traffic classification ...

Entropy Based Method for Network Anomaly Detection Abstract: Entropy based intrusion detection which recognizes the network behavior only depends on the packets themselves and do not need any security background knowledge or user interventions, shows great appealing in network security areas.

Entropy Based Method for Network Anomaly Detection - IEEE ...

Entropy-based data analysis methods have been applied to many science or engineering fields. The centre of pressure (COP) data are often dynamic, non-linear and non-stationary in nature. It is...

(PDF) Entropy-based method for COP data analysis

A method based on discrete wavelet transforms (DWT) with entropy features was proposed, leading to a classification accuracy of 84% using k -nearest neighbor (kNN), probabilistic neural...

Multiband entropy-based feature-extraction method for ...

In this article, we focus on the entropy-based approach as an alternative method. Entropy is commonly used in information theory to measure the uncertainty of random variables. There are several approaches that have adopted entropy-based measures to identify the relationships between genes and disease.