A Fuzzy Fault Diagnosis Method For Large Radar Based On

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A Fuzzy Fault Diagnosis Method

This paper introduces a new method based on experimental data-driven random fuzzy evidence acquisition and intuitionistic fuzzy

sets fusion (IFSF). Firstly, this method does not need to calculate...

(PDF) A Fault Diagnosis Method of Industrial Robot Rolling ...

This paper presents a fuzzy diagnosis for detecting and distinguishing multi-fault state, the method is constructed on the basis of possibility theory and support

vector machines (SVMs) with information fusion from multiple sensors. Non-dimensional symptom parameters (NSPs) are defined to reflect the characteristics of vibration information, and principal component analysis (PCA) is used to ...

A fuzzy diagnosis of multi-fault state based on ...

This paper proposes a

novel concept lattice method for the intelligent diagnosis of medical device faults. To minimize the influence of uncertain factors, fuzzy sets are used to accurately express relationships between concepts. First, the occurrence frequency and severity of each fault type are extracted based on the collected information.

Research on the

Intelligent Fault Diagnosis of Medical ...

Although these methods are widely used in the world, they sometimes fail to diagnose, especially when more than one fault exists in a transformer. This paper presents a fuzzy logic technique which can diagnose multiple faults in a transformer and quantitatively indicates the

likelihood/severity of each fault.

A fuzzy dissolved gas analysis method for the diagnosis of ...

To overcome these limitations, Five Fuzzy ratio method for diagnosis of multiple faults is developed. The paper used 100 different cases to test the accuracy of these methods in interpreting the transformer

condition. Key-words:Expert System (ES),Dissolved Gas Analysis(DGA),International Electro Commission Method (IEC),

Diagnosis of Power Transformer Faults based on Five Fuzzy ...

Abstract: A new fault diagnosis method based on improved Adaptive fuzzy spiking neural P systems (in short, AFSN P systems)

and Particle swarm optimization (PSO) algorithm is presented to improve the efficiency and accuracy of diagnosis for power systems in this paper.

A Fault Diagnosis Method of Power Systems Based on an ...

the fault diagnosis system of elevator [10]. In the elevator fault diagnosis system, there are some

unfavourable factors such as the small number of sensors, and there are problems between elevator equipment and fault generation mechanism. This paper chooses dynamic causal map and fuzzy inference fusion method. The

Research on Fault Diagnosis Based on Dynamic causality ...

In the proposed fault diagnosis method, the

EMD method is used to decompose vibration signals into a series of basic intrinsic mode functions (IMFs). Then the fuzzy entropy is used to effectively extract the features of vibration signal, which are regarded as input vectors of SVM.

Study on a novel fault diagnosis method based on ...

Fuzzy Sets in a Satellite Fault

Diagnosis Application ... and an example of satellite fault diagnosis illustrates the method. A brief rationale for the choice of possibility theory and fuzzy sets is provided. Besides, the proposed approach is related to the logical view of diagnosis.

Handling Uncertainty with Possibility Theory and Fuzzy ...

In manuscript (Da

Costa et al., 2011), a neuro-fuzzy method is used to build a system for efficient transient identification. The proposed system uses artificial neural networks (ANN) as first level transient diagnostic.

Research on intelligent fault diagnosis method for nuclear ...

3. The proposed method. In this paper,

an adaptive deep transfer learning method is proposed for bearing fault diagnosis in which the LSTM model based on instance -TL generates some auxiliary datasets, JDA adapts an auxiliary dataset and D tar, and GWO algorithm is introduced to adaptively learn JDA key parameters.This part is composed of the following sections: Section 3.1 constructs

the LSTM ...

An adaptive deep transfer learning method for bearing ...

The main contributions of this paper include: (1) the expression of failure phenomena based on different module functions; (2) the role of a fuzzy clustering method through adaptive fault diagnosis for the establishment of

standards; (3) establishment of a twice-alarmed mechanism for fault diagnosis based on the characteristics of the distributed computation in WSNs, which mechanism can consolidate the fault information and improve the detection efficiency; (4) an adaptive diagnostic ...

AF-DHNN: Fuzzy Clustering and

Inference-Based Node Fault ...

In, a weighted fuzzy Petri Nets fault diagnosis method, based on multisource information fusion, was proposed, which introduced electrical quantity and took the time series attribute into consideration. In addition, fuzzy neural Petri Nets were used in the field of fault diagnosis.

Power Grid Fault Diagnosis Method Using Intuitionistic ...

In this paper, an application of the motor current signature analysis (MCSA) method and the fuzzy min–max (FMM) neural network to detection and classification of induction motor faults is described. The finite element method is employed to generate

simulated data pertaining to changes in the stator current signatures under different motor conditions. The MCSA method is then used to process ...

Application of the fuzzy min–max neural network to fault ...

Typical methods include pattern recognition-based diagnosis, support

vector machine-based diagnosis, neural network-based diagnosis, and fuzzy theory-based diagnosis. In this paper, a mechanical fault diagnosis method based on fuzzy recognition is proposed.

Intelligent fault diagnosis method of mechanical equipment ...

Based on fuzzy

techniques for fault diagnosis, the proposed fuzzy Petri net model uses the fault logical relationship between a sensor and an improved Petri net model.

Adaptive Neural Fuzzy Petri Net Algorithm for Motor Fault ...

Existing studies on fault diagnosis depend on human experiences

to select reference curves and require fault type information beforehand. Therefore, we proposed a turnout fault diagnosis method, named similarity function and fuzzy c-means based two-stage algorithm to detect faults and identify fault types in real time.

Two-stage turnout fault diagnosis based on similarity

...

The signal processing method, wavelet transform, for instance, is an effective method for fault diagnosis, but lacks robustness to noise. Sensor data fusion, as a data-driven method, has attracted more and more attention. This method can integrate multi-source information with different physical characteristics to reduce uncertainty.

Sensor Data Fusion with Z-Numbers and Its Application in ...

T-S fuzzy gate fault tree method can solve these disadvantages but still has weaknesses in complex reasoning and only one-way reasoning. On the other hand, the BN is suitable for fault diagnosis of pumping station because of its powerful ability to deal with uncertain

information.