

Hybrid Fault Reasoning And Guided Troubleshooting

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HYBRID FAULT REASONING AND GUIDED TROUBLESHOOTING SYSTEM ...

Hybrid Case-Based Reasoning for the Diagnosis of Complex Devices M. P. F&et and J. I. Glasgow Department of Computing & Information Science, Queen ’ s University, Kingston, Ontario, Canada, K7L 3N6 {feret,janice}@qucis.queensu.ca Abstract A novel approach to integrating case-based reasoning with

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Hybrid Fault Reasoning And Guided Troubleshooting

Because of their complex structures, diverse functions, and cross-correlation among subsystems, the fault of large-scale equipments occurs easily, but its trouble shooting is difficult. Firstly, a hybrid reasoning method is proposed, and the framework of fault diagnosis system is constructed according to characteristics of case based reasoning (CBR) and rule based reasoning (RBR).

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A Web-based Intelligent Hybrid System for Fault Diagnosis

The reasoning machine adopts the mixed reasoning mechanism which is based rules and examples, consequently achieved the function of expert system to self-learning and self-improvement. After fans of coal fault diagnosis expert system is put in to use, the operation and maintenance of fans is significantly improved.

A hybrid case-based reasoning and neural network approach ...

In this research, an optimized hybrid model is proposed by integrating a case-based reasoning (CBR) method and a BN-based diagnosis method. Initially, a FMEA-style case-based reasoning (F-CBR) method is proposed by collecting and formalizing the existed fault cases for the low-level similarity searching guided diagnosis.

Hybrid case-based reasoning for on-line product fault ...

Highlights A hybrid support vector machine and fuzzy reasoning based fault diagnosis and rescue system were developed for stable glutamate fermentation. The proposed system had a better fault-detection performance than that of neural networks based system. The proposed system could classify different biotin initial-content faults and rescue various failure-likelihood glutamate fermentations.

(PDF) A Hybrid Case-Based Reasoning and Neural Network

... For claim, evidence, and reasoning writing, the strength of the argument depends on its evidence. Reasoning. Reasoning is the thinking behind the evidence that led to the claim. It should explain the evidence if necessary, and then connect it to the claim.

A hybrid support vector machine and fuzzy reasoning based

... A Hybrid Rule-Based/Case-Based Reasoning Approach for Service Fault Diagnosis Andreas Hanemann Munich Network Management Team Leibniz Supercomputing Center Barer Str. 21, D-80333 Munich, Germany E-mail: hanemann@lrz.de Abstract—In today’s service market the provisioning of high quality services has become a critical issue for providers as

Hybrid case-based reasoning for on-line product fault ...

This paper presents a hybrid case-based reasoning system for on-line technical support of PC fault diagnosis. HyCase consists of a natural language (keyword) input and the graph-theoretic constraint-net. Natural language or keyword inputs are parsed and then generated into a constraint-net. The constraint-net is validated and its links rationalized and standardized to minimize ambiguity.

HYBRID FAULT REASONING AND GUIDED TROUBLESHOOTING SYSTEM ...

Keywords: Intelligent fault diagnosis, hybrid approach, case based reasoning, neural network, Web-based help desk 1. Introduction A multinational corporation in Singapore manufactures and supplies insertion and surface mount machines for use in the electronics industry. A hot-line service centre (or help desk) was set up by the *A Guide to Fault Detection and Diagnosis*

This application relates to a fault reasoning and guided troubleshooting system, which combines aspects of model-based reasoning, and case-based reasoning to provide a hybrid approach. One method of identifying faulty components in large systems, such as gas turbine engines, is called “fault reasoning”. *Claim, Evidence, Reasoning: What You Need to Know / It's ...* Patent application title: HYBRID FAULT REASONING AND GUIDED TROUBLESHOOTING SYSTEM Inventors: Ravi Rajamani Michel D. Paquet Baban V. Baliga Andrew Paul Gagnon Agents: CARLSON, GASKEY & OLDS/PRATT & WHITNEY Assignees: Origin: BIRMINGHAM, MI US IPC8 Class: AG06N702FI USPC Class: 706 52 Patent application number: 20090276387 Abstract: A fault reasoning system combines both a model-based ...

arXiv:1711.03902v1 [cs.AI] 10 Nov 2017

integrating machine learning and automated reasoning. Such systems have shown promise in a range of applications, including computational biology, fault diagnosis, training and assessment in simulators, and software veri cation. This joint survey reviews the personal ideas and views of several researchers on neural-symbolic learning and reasoning.

Base on Hybrid Reasoning Mechanism Fans of Coal Fault ...

In the WebService system, a hybrid case-based reasoning (CBR) and artificial neural network (ANN) approach is adopted as the intelligent technique for machine fault diagnosis.

5th Oct : 10:30 UTC Biological/Optical/Microscopic Imaging ...

Step 8: Reasoning and fault diagnostics. The observation symptoms are acquired from the discretization of the current operating data to obtain a diagnostics sample. Diagnostics reasoning based on the diagnostics sample is conducted to obtain the probabilities P(S j /F i =true) (1?m,1?j?n) using the *GitHub - zziz/pwc: Papers with code. Sorted by stars ...*

This paper presents a hybrid case-based reasoning system for on-line technical support of PC fault diagnosis. HyCase consists of a natural language (keyword) input and the graph-theoretic ...

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Fault Diagnosis System for Large-Scale Equipments Based on ... intelligent fault diagnosis system, known as WebService, has been developed in order to support customer services over the Web. In this research, a hybrid case-based reasoning (CBR), artificial neural network (ANN) and rule-based reasoning approach is adopted as the intelligent technique for fault-diagnosis. The hybrid approach is operated as ...