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**A Hybrid Fuzzy Logic And**  
A Hybrid Fuzzy-Neural Expert System for

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Diagnosis Christoph S. Herrmann \*  
Intellektik, Informatik, TH Darmstadt  
Alexanderstrafie 10, D-64283  
Darmstadt, Germany herrmann@intellek  
tik.informatik.th-darmstadt.de Abstract  
Fuzzy Logic, a neural network and an  
expert system are combined to build a  
hybrid diagnosis system.

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**A Hybrid Fuzzy-Neural Expert  
System for Diagnosis**

Fuzzy logic plays an important role in many construction engineering and management applications, which are reviewed in this paper. This paper discusses the limitations of fuzzy logic and how this theory has been combined with other modeling techniques to

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develop fuzzy hybrid techniques, and describes the aspects of construction problems and decision making that are most effectively modeled using these techniques.

## **Fuzzy Logic and Fuzzy Hybrid Techniques for Construction ...**

A hybrid model using fuzzy logic and an

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extreme learning machine with vector particle swarm optimization for wireless sensor network localization Fig. 2 shows the overall scheme of our hybrid approach. In general, it includes four main components:

**A hybrid model using fuzzy logic and an extreme learning ...**



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Fuzzy Logic Control for Parallel Hybrid Vehicles Niels J. Schouten, Mutasim A. Salman, and Naim A. Kheir Abstract— In this paper, a fuzzy logic controller is developed for hybrid vehicles with...

## **(PDF) Fuzzy logic control for parallel hybrid vehicles**

A novel speed controller for the

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trapezoidal three—phase Brushless DC (BLDC) Motor Drive is proposed using a hybrid fuzzy logic/proportional plus integral (PI) control.

## **A Novel and Simple Hybrid Fuzzy/PI Controller for ...**

A fuzzy logic controller is used to combine both direct and indirect

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methods. Based on the fuzzy neural netwo... Hybrid fuzzy direct/indirect adaptive controller for uncertain nonlinear systems - Youssouf Bibi, Omar Bouhali, Tarek Bouktir, 2020

## **Hybrid fuzzy direct/indirect adaptive controller for ...**

A hybrid intelligent system for quality

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measurement of milled rice is presented.

- The combination of machine vision and fuzzy logic is used for quality classification.
- Human experts' judgments on quality grade of rice can be represented by the system.
- The proposed method successfully classifies different milled rice samples.
-

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## **A hybrid intelligent approach based on computer vision and ...**

developed fuzzy logic controller, the plug-in hybrid vehicle can run up to 200 miles with high efficiency. Both controllers are developed and their performance is tested on the highly reliable vehicle modeling and simulation software AUTONOMIE. The main

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objective of developing the controllers is increasing the fuel economy of the vehicle. The

## **Fuzzy Logic Controller for Parallel Plug-in Hybrid Vehicle**

Hybrid systems: A Hybrid system is an intelligent system which is framed by combining atleast two intelligent

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technologies like Fuzzy Logic, Neural networks, Genetic algorithm, reinforcement Learning, etc. The combination of different techniques in one computational model make these systems possess an extended range of capabilities.

## **Introduction to ANN (Artificial**

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A basic review of fuzzy logic applications in hydrology and water resources Shruti Kambalimath<sup>1</sup> · Paresh Chandra Deka<sup>1</sup> ... Keywords Fuzzylogic·Hydrology·Water resources·Hybrid-fuzzymodeling Introduction ... fuzzy-basedregression(Bardossyetal.1990; Bardossyetal.1991;OzelkanandDuckstein20



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00;Bogardi ...

## **A basic review of fuzzy logic applications in hydrology ...**

Journal of Fuzzy Logic and Modeling in  
Engineering. Volume 1, 2 Issues, 2021  
ISSN: 2666-2957 (Online) ISSN:  
2666-2949 (Print) This journal supports  
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System Applications in E-commerce  
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## **Home Page ::: Journal of Fuzzy Logic and Modeling in ...**

Using Hybrid Fuzzy logic and Genetic  
Algorithms to build a faster and accurate  
recommender system.

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## **Hybrid Fuzzy-Genetic Approach to Recommendation Systems**

Good and accurate detection requires an approach to obtain a model capable of processing observation data. This research proposes a method as solution utilizing hybrid approach employed both fuzzy logic and evolution algorithm.

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Evolution Strategies is used for optimization that get results better accuracy than simply using FIS Tsukamoto.

## **[PDF] Dental Disease Detection Using Hybrid Fuzzy Logic ...**

HYBRID FUZZY LOGIC PID CONTROLLER.  
Thomas Brehm and Kuldip S. Rattan.

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Department of Electrical Engineering.  
Wright State University. Dayton, OH  
45435. Abstract.

## **(PDF) Hybrid fuzzy logic PID controller - ResearchGate**

Intelligent Control: A Hybrid Approach  
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and Genetic Algorithms (Studies in

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Computational Intelligence (517))

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Intelligent Control: A Hybrid Approach  
Based on Fuzzy Logic, Neural Networks  
and Genetic Algorithms (Studies in  
Computational Intelligence (517))

**Intelligent Control: A Hybrid**

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Neuro-fuzzy hybridization results in a hybrid intelligent system that synergizes these two techniques by combining the human-like reasoning style of fuzzy systems with the learning and connectionist structure of neural networks. Neuro-fuzzy hybridization is widely termed as fuzzy neural network

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(FNN) or neuro-fuzzy system (NFS) in the literature.

## **Neuro-fuzzy - Wikipedia**

In fuzzy mathematics, fuzzy logic is a form of many-valued logic in which the truth values of variables may be any real number between 0 and 1 both inclusive. It is employed to handle the concept of



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partial truth, where the truth value may range between completely true and completely false. By contrast, in Boolean logic, the truth values of variables may only be the integer values 0 or 1.

## **Fuzzy logic - Wikipedia**

Fuzzy logic was used as a close-loop control structure to control the DC/DC

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converters in the topology, whilst a rule-based control strategy was used to control the operating states of the hybrid energy storage system. Experimental implementation of the system showed that the system was able to actively control the

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