

A Hybrid Fuzzy Logic And Extreme Learning Machine For

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A Hybrid Fuzzy Logic And

Thus, this study investigates and proposes a method for improving a traditional range-free-based localization method (centroid) that uses soft computing approaches in a hybrid model. This model integrates a fuzzy logic system into centroid and uses an extreme learning machine (ELM) optimization technique to capitalize on the strengths of both approaches: the former is properly used with low node density and short coverage, while the latter is used for the opposite—to achieve a robust ...

A hybrid model using fuzzy logic and an extreme learning

...

In a hybrid fuzzy weights-of-evidence model, knowledge-based

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fuzzy membership values are combined with data-based conditional probabilities to derive fuzzy posterior probabilities. Moreover, Tahmasebi and Hezarkhani (2010a) applied FL to predict the grade in case of lack of data which showed that this method can provide better results.

A hybrid neural networks-fuzzy logic-genetic algorithm for ...

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 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 ...

Our proposed hybrid system uses a two-stage fuzzy logic controller to reduce the number of ping-pong handoffs. In the first stage, the system is designed to control the power of SU and to avoid any interference to PU. In the second stage, the system is designed to take the decision to execute handoff.

Hybrid Fuzzy Logic Engine for Ping-Pong Effect Reduction

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Intelligent Control: A Hybrid Approach Based on Fuzzy Logic, Neural Networks and Genetic Algorithms (Studies in Computational Intelligence (517)) [Siddique, Nazmul] on Amazon.com. *FREE* shipping on qualifying offers. Intelligent Control: A Hybrid Approach Based on Fuzzy Logic, Neural Networks and Genetic Algorithms (Studies in Computational Intelligence (517))

Intelligent Control: A Hybrid Approach Based on Fuzzy ...

HYBRID FUZZY LOGIC PID CONTROLLER. Thomas Brehm and Kuldip S. Rattan. Department of Electrical Engineering. Wright State University. Dayton, OH 45435. Abstract.

(PDF) Hybrid fuzzy logic PID controller - ResearchGate

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CWS hybrid intelligence model is developed by integrating widely applied fuzzy logic systems (FLS), namely, type-2 Takagi-Sugeno-Kang (T2-TSK) FLS, with grey clustering analysis (GCA) for hydraulic fracturing in H gas field of Sichuan Basin, one of the large natural gas field in Southwest of China.

Fuzzy logic and grey clustering analysis hybrid ...

Fuzzy P+ID, two-level hybrid fuzzy logic controller and fuzzy PD+I are some useful methods of fuzzy hybrid,. In this study, two-level hybrid fuzzy logic controller is used to decrease the settling time. In order to minimize the steady state error, fuzzy PD+I is proposed. Figure 1 shows the buck converter system.

Hybrid Fuzzy Logic Controllers for Buck Converter

Hybrid systems: A Hybrid system is an intelligent system which is framed by combining atleast two intelligent 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 Neural Networks) | Set 3 ...

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

Hybrid Fuzzy-Genetic Approach to Recommendation Systems

Fuzzy logic based dynamic handover scheme for indoor Li-Fi and RF hybrid network Abstract: Light Fidelity (LiFi) is a recently proposed technology that combines illumination and high speed wireless communication using light emitting diodes (LEDs).

Fuzzy logic based dynamic handover scheme for indoor Li-Fi ...

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

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Neuro-fuzzy - Wikipedia

of a hybrid evolutionary fuzzy model for stock selection,” 2011 IEEE Int. Conf. Fuzzy Syst. FUZZIEEE 2011 , pp. 210 – 217, 2011. [16] H. Kahramanli and N. Allahverdi, “Design of a hybrid ...

(PDF) Dental Disease Detection Using Hybrid Fuzzy Logic

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Design of Hybrid Fuzzy Logic Controllers: Performance Evaluation and Practical Application with PIC16F877A [Abdulazeez Salami] on Amazon.com. *FREE* shipping on qualifying offers. A number of academic and industrial researches in control systems have exposed the inherent weaknesses of PID control which are; rigidity

Design of Hybrid Fuzzy Logic Controllers: Performance ...

8 th International Conference of Artificial Intelligence and Fuzzy Logic (AI & FL 2020). December 12~13, 2020, Dubai, UAE. Due to the current COVID-19 pandemic, registered authors are now able to present their work through our online platforms.

AI & FL 2020 : 8th International Conference of Artificial ...

Hybrid Fuzzy Logic Applications: Hybrid fuzzy applications are the usage of other techniques together with fuzzy logic either in a combined or cascaded way. Example of hybrid applications may be Neuro-fuzzy application, usage of Artificial Neural Networks with fuzzy logic, Fuzzy Bayesian applications, usage of Bayesian logic with fuzzy logic, etc.

Fuzzy Logic in Healthcare: Computer Science & IT Book ...

The first one is to use the fuzzy logic controller as an objective to find the maximum power point tracking, applied to a hybrid wind-solar system, at fixed atmospheric conditions. The second one is to respond to real-time control system constraints and to improve the generating system performance.

Hardware Implementation of a Fuzzy Logic Controller for a ...

The paper presents a fuzzy logic modified multi-stage hierarchical Fuzzy Logic PID Control Scheme for hybrid AC Grid-

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Drive-Battery Charging System. The multistage control scheme includes two fuzzy control stages for the separate PD and PID parts to ensure fast dynamical response, robust and effective speed control and efficient energy utilization with minimal ripple currents and transient over voltages during battery charging.

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