

A Hybrid Fuzzy Logic And Extreme Learning Machine For

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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 ...](#)

A hybrid fuzzy logic proportional- integral-derivative and conventional on-off controller for morphing wing actuation using shape memory alloy Part 1: Morphing system mechanisms and controller architecture design T. L. Grigorie, R. M. Botez and A. V. Popov École de Technologie Supérieure Montréal, Québec, Canada M. Mamou and Y. Mébarki

[A hybrid fuzzy logic proportional- integral-derivative and ...](#)

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 ...](#)

Abstract and Figures. This paper investigates the design of a fuzzy logic PID controller that uses a simplified design scheme. Fuzzy logic PD and PI controllers are effective for many control ...

[\(PDF\) Hybrid fuzzy logic PID controller - ResearchGate](#)

In a hybrid fuzzy weights-of-evidence model, knowledge-based 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 ...](#)

Soft Computing (SC) consists of several computing paradigms, including fuzzy logic, neural networks, and genetic algorithms, which can be used to create powerful hybrid intelligent systems. Combining type-2 fuzzy logic with traditional SC techniques powerful hybrid intelligent systems can be built for solving complex control problems.

[Interval Type-2 Fuzzy Logic for Hybrid Intelligent Control ...](#)

Fuzzy Logic Control for Parallel Hybrid V ehicles 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](#)

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This research proposes a method as solution utilizing hybrid approach employed both fuzzy logic and evolution algorithm. Tsukamoto Fuzzy Inference System has an advantage in the classification and...

~~(PDF) Dental Disease Detection Using Hybrid Fuzzy Logic ...~~

This review suggests that hybrid-fuzzy modeling approach works well in many applications of hydrology when compared with pure fuzzy logic modeling. In recent years, fuzzy logic has emerged as a powerful technique in the analysis of hydrologic components and decision making in water resources.

~~A basic review of fuzzy logic applications in hydrology ...~~

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. Neuro-fuzzy system (the more popular term is used henceforth) incorporates the human-like reasoning style of fuzzy systems through the use of fuzzy ...

~~Neuro-fuzzy - Wikipedia~~

Govinda Chowdary V., Udhay Sankar V., Mathew D., Hussaian Basha C., Rani C. (2020) Hybrid Fuzzy Logic-Based MPPT for Wind Energy Conversion System. In: Das K., Bansal J., Deep K., Nagar A., Pathipooranam P., Naidu R. (eds) Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing, vol 1057.

~~Hybrid Fuzzy Logic Based MPPT for Wind Energy Conversion ...~~

In this thesis, two fuzzy logic controllers have been developed for the energy management system of the hybrid vehicle. For the first controller, it is assumed that the vehicle will work like a plug-in hybrid vehicle.

~~Fuzzy Logic Controller for Parallel Plug-in Hybrid Vehicle~~

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Intelligent Hybrid Systems: Fuzzy Logic, Neural Networks, and Genetic Algorithms provides researchers and engineers with up-to-date coverage of new results, methodologies and applications for building intelligent systems capable of solving large-scale problems.

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Candidate-well selection (CWS) aims to recognize wells that have potential for higher production after hydraulic fracturing stimulation in petroleum development process, which is natural nonlinear, strong-coupling, uncertain, multi-input, and single-output mathematical problem. 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 ...

~~Fuzzy logic and grey clustering analysis hybrid ...~~

Therefore, to determine the optimal path of motion, the hybrid Fuzzy-Genetic method was used. In Fuzzy logic, distance from the nearest obstacle and the angle difference with the target node were selected as the two node-to-node routing criteria. To reduce the traveled distance in the Fuzzy method, the Genetic algorithm was used to optimally adjust the Fuzzy rules table.

~~Improved routing in dynamic environments with moving ...~~

8 th International Conference of Artificial Intelligence and Fuzzy Logic (AI & FL 2020) provides a forum for researchers who address this issue and to present their work in a peer-reviewed forum. Authors are solicited to contribute to the conference by submitting articles that illustrate research results, projects, surveying works and industrial experiences that describe significant advances ...

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