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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 ...

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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

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

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(2010a) applied FL to predict the grade in case of lack of data which showed that this method can provide better results.

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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.

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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

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~~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.,

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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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