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~~Fuzzy Logic in Artificial Intelligence with Example | Artificial Intelligence Fuzzy Logic and Neural Networks Why we need neural networks and fuzzy logic systems? 13 - the fuzzy rule based model fuzzy graph Model arabic language H462710 - Fuzzy Logic Control Example 3. Reasoning: Goal Trees and Rule-Based Expert Systems Lecture 01: Introduction to Fuzzy Sets When Do You Use Machine Learning vs. a Rules Based System? Fuzzy Logic Application in Real Life - Robotics~~

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Fuzzy rule-based modeling has the potential to revolutionize fields such as hydrology because it can handle uncertainty in modeling problems too complex to be approached by a stochastic analysis. There is also excellent potential for handling large-scale systems such as regionalization or highly non-linear problems such as unsaturated groundwater pollution.

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Fuzzy Rule-Based Modeling with Applications to Geophysical ...

The fuzzy rule-based approach has achieved success in business and engineering applications, mostly in the field of fuzzy control, in response to the need of flexible and robust decisions in the face of rapid change, imperfect information, uncertainty and ambiguous objectives (Terano et al., 1994). Several applications in ecosystem management exist for which fuzzy models have been designed.

Fuzzy rule-based models for decision support in ecosystem ...

Constituting an extension of classical rule-based systems, these have been successfully applied to a wide range of problems in different domains for which uncertainty and vagueness emerge in multiple ways. In a broad sense, fuzzy rule-based systems are rule-based systems, where fuzzy sets and fuzzy logic are used as tools for representing different forms of knowledge about the problem at hand, as well as for modeling the interactions and relationships existing between its variables.

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The purpose of the Journal of Fuzzy Logic and Modeling in Engineering is to publish recent advancements in the theory of fuzzy sets and disseminate the results of these advancements. The journal focuses on the disciplines of industrial engineering, control engineering, computer science, electrical engineering, mechanical engineering, civil engineering, management engineering and others.

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Fuzzy rule-based models have attracted attention because of their modular architectures, well-developed design methodologies and practices as well as interpretability aspects. Methods exploiting factors of randomness offer significant efficiency and implementation simplicity that are essential in numerous application areas.

Fuzzy rule-based models with randomized development ...

This paper proposes a fuzzy rule-based modeling approach (iFRB) for interval-valued data forecasting. iFRB is a fuzzy rule-based model with affine consequents, which provides a nonlinear approach that processes interval-valued data.

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