

Fuzzy Logic Application In Civil Engineering

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[Fuzzy Logic | Introduction - GeeksforGeeks](#)

Fuzzy logic has been used in numerous applications such as facial pattern recognition, air conditioners, washing machines, vacuum cleaners, antiskid braking systems, transmission systems, control of subway systems and unmanned helicopters, knowledge-based systems for multiobjective optimization of power systems, weather forecasting systems, models for new product pricing or project risk assessment, medical diagnosis and treatment plans, and stock trading.

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Fuzzy Logic is defined as a many-valued logic form which may have truth values of variables in any real number between 0 and 1. It is the handle concept of partial truth. In real life, we may come across a situation where we can't decide whether the statement is true or false. At that time, fuzzy logic offers very valuable flexibility for reasoning.

[Fuzzy logic | mathematics | Britannica](#)

What is Fuzzy Logic? Fuzzy logic approximates human reasoning and balances the tradeoff between precision and significance. The term fuzzy refers to things which are not clear or are vague Based on a system of non-digital (continuous & fuzzy without crisp boundaries) set theory and rules. Developed by Lotfi Zadeh in 1965

[Application of Fuzzy Logic to Simulation for Construction ...](#)

This paper describes the application of fuzzy logic to discrete event simulation in dealing with uncertainties of construction operations. The uncertainties in the quantity of resources required to activate an activity are modeled with fuzzy sets in linguistic terms. The fuzzy logic if-then rule is built to control the activation of activities. The duration of the activity that varies with the quantities of resources involved is determined through the fuzzy logic rule-based model.

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One of the common application areas that use fuzzy logic is computer-aided diagnosis (CAD) in medicine. CAD is a computerized set of inter-related tools which can be used to aid physicians in their diagnostic decision-making.

[Application of Fuzzy Logic in Civil Engineering in Japan](#)

lications and has been active in the research and teaching of fuzzy logic since 1983. He is the founding Co-Editor-in-Chief of the International Journal of Intelligent and Fuzzy Systems, the co-editor of Fuzzy Logic and Control: Software and Hardware Applications, and the co-editor of Fuzzy Logic and Probability Applications: Bridging the Gap. His

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Here we discuss the different applications of fuzzy logic: Speech recognition, facial characteristics recognition are the important application of Fuzzy Logic. Fuzzy Logic is used in the Aerospace industry to control the altitude of aircraft and satellites. In the anti-icing and deicing operation of ...

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In automotive, fuzzy logic is used in the following areas ?. Trainable fuzzy systems for idle speed control. Shift scheduling method for automatic transmission. Intelligent highway systems. Traffic control. Improving efficiency of automatic transmissions.

[FUZZY LOGIC WITH APPLICATIONS](#)

In technical applications, fuzzy control refers to programs or algorithms using fuzzy logic to allow machines to make decisions based on the practical knowledge of a human operator. The fundamental problem of automatic control is that of determining the appropriate response of the system, or production plant, for any given set of conditions.

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Fuzzy logic are used in Natural language processing and various intensive applications in Artificial Intelligence. Fuzzy logic are extensively used in modern control systems such as expert systems. Fuzzy Logic is used with Neural Networks as it mimics how a person would make decisions, only much faster.

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[Aims & Scope. 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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[Abstract and Figures In order to describe the phenomenon for which the mathematical model or input data are unknown, the fuzzy logic is applied. The fuzzy theory enables to find the most reliable...](#)

Real-Life Applications of Fuzzy Logic

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Fuzzy Logic Tutorial: What is, Application & Example

[The application of models based on fuzzy logic offers the possibility of effectively approaching the creation of support systems for decision-making, since data can be extracted in a practical way...](#)