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### Fuzzy Mathematical Techniques With Applications

Fuzzy Logic has also seen a wide application to control theory in the last two decades. An important use of fuzzy methods for Data Mining is for classification. Associations between inputs and outputs are known in fuzzy systems as fuzzy associative memories or FAMs. A FAM system encodes a collection of compound rules that associate multiple input statements with multiple output statements We combine such multiple statements using logical operators such as conjunction, disjunction and negation.

### Fuzzy Mathematics - an overview | ScienceDirect Topics

Fuzzy Logic and Probability Applications: A Practical Guide (ASA-SIAM Series on Statistics and Applied Probability) Society for Industrial Mathematics Timothy J. Ross , Jane M. Booker , W. Jerry Parkinson

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Then A is a fuzzy subgroup of G if for all x,y in G, A(x\*y -1) ≥ min(A(x),A(y -1)). A similar generalization principle is used, for example, for fuzzification of the transitivity property. Let R be a fuzzy relation in X, i.e. R is a fuzzy subset of X×X. Then R is transitive if for all x,y,z in X, R(x,z) ≥ min(R(x,y),R(y,z)). Fuzzy analogues

### Fuzzy mathematics - Wikipedia

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.

### Real-Life Applications of Fuzzy Logic

Additional Physical Format: Online version: Kandel, Abraham. Fuzzy mathematical techniques with applications. Reading, Mass. : Addison-Wesley, ©1986

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Coexistence of Limit Cycles and Homoclinic Loops in a SIRS Model with a Nonlinear Incidence Rate A Characterization of the Spaces  $\mathfrak{S}_{\frac{1}{k+1}}^{\{k/(k+1)\}}$  by Means of Holomorphic Semigroups

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Fuzzy models or sets are mathematical methods that have been widely used to represent and interpret vague and uncertain data and information. They have been commonly applied to decision-making approaches such as the analytic network process and analytic hierarchy process.

### Mathematics | Special Issue : Applications of Mathematical ...

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### Mathematical and Computational Applications | An Open ...

The theory of intuitionistic fuzzy soft set (IFSS) is an extension of the soft set theory which is utilized to precise the deficiency, indeterminacy, and uncertainty of the evaluation while making decisions. The conspicuous characteristic of this mathematical concept is that it considers two distinctive sorts of information, namely the membership and non-membership degrees.

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Pattern recognition is the automated recognition of patterns and regularities in data.It has applications in statistical data analysis, signal processing, image analysis, information retrieval, bioinformatics, data compression, computer graphics and machine learning.Pattern recognition has its origins in statistics and engineering; some modern approaches to pattern recognition include the use ...