

Article

Fuzzy Logic Concepts, Developments and Implementation

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Abstract: Over the past few decades, the field of fuzzy logic has evolved significantly, leading to the development of diverse techniques and applications. Fuzzy logic has been successfully combined with other artificial intelligence techniques such as artificial neural networks, deep learning, robotics, and genetic algorithms, creating powerful tools for complex problem-solving applications. This article provides an informative description of some of the main concepts in the field of fuzzy logic. These include the types and roles of membership functions, fuzzy inference system (FIS), adaptive neuro-fuzzy inference system and fuzzy c-means clustering. The processes of fuzzification, defuzzification, implication, and determining fuzzy rules' firing strengths are described. The article outlines some recent developments in the field of fuzzy logic, including its applications for decision support, industrial processes and control, data and telecommunication, and image and signal processing. Approaches to implementing fuzzy logic models are explained and, as an illustration, Matlab (version R2024b) is used to demonstrate implementation of a FIS. The prospects for future fuzzy logic developments are explored and example applications of hybrid fuzzy logic systems are provided. There remain extensive opportunities in further developing fuzzy logic-based techniques, including their further integration with various machine learning algorithms, and their adaptation into consumer products and industrial processes.

Keywords: fuzzy logic; fuzzy inference system; adaptive neuro-fuzzy inference system; fuzzy c-means clustering; fuzzy logic applications; fuzzy logic implementation; hybrid fuzzy logic models



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1. Introduction

The term logic could be described as the study of correct reasoning [1] while reasoning could be defined as the process of drawing conclusions from the available information. The term fuzzy is associated with uncertainty in a process or data and fuzzy logic is an artificial intelligence technique that uses linguistic terms to perform reasoning and thus facilitates analysis and interpretation of imprecise information [2–4]. Using linguistic terms in fuzzy logic may reduce the complexities of system modelling as there could be less need for extensive mathematical formulations. The field of fuzzy logic and its applications have evolved greatly in the last few decades with numerous reported publications and applications [5]. Fuzzy logic is distinct from probability theory as the latter is generally applied to problems associated with random characteristics. Probability theory can have limitations in scenarios where the problem is termed in vague linguistic terms or cases where the available information could be imprecise.

Crisp or classical sets can be considered as special cases of fuzzy sets. If A is a crisp set and U is a universal set (or universe of discourse set or a set that contains all elements of other sets, including its own elements), then for any element x in U , x is either a full member of A (membership = 1) or not a member at all (membership = 0). In general, a crisp set A can be described by its characteristic function $\mu_A(x)$ as

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