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Fuzzy logic takes truth degrees as a mathematical basis on the model of the vagueness while probability is a mathematical model of ignorance Crisp set has strict boundary T or F while Fuzzy boundary with a degree of membership A classical set is widely used in digital system design while fuzzy set Used only in fuzzy controllers

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## **Fuzzy Logic Tutorial: What is, Application & Example**

Fuzzy Logic is the description of an Algebra. Probability is one interpretation and application of Fuzzy Logic as a Fuzzy Logic. However, the phrase, “degrees of truth” has some misleading connotations. Fuzzy Logic is a class of logic systems that can range between 0 and 1, and does not specifically correspond to any particular meaning.

## **What is the difference between fuzzy logic and probability ...**

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1980s other investigators showed a strong relationship between evidence theory, probability theory, and possibility theory with the use of what have been called fuzzy measures (Klir and Folger (1988)). In the over three decades since its inception by Zadeh, fuzzy set theory (and its logical counterpart, fuzzy logic) has undergone tremendous growth.

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Perhaps you're already aware of this, but Chapters 3, 7 and 9 of George J. Klir, and Bo Yuan's Fuzzy Sets and Fuzzy Logic: Theory and Applications (1995) provide in-depth discussions on the differences between the fuzzy and probabilistic versions of uncertainty, as well as several other types related to Evidence Theory, possibility distributions, etc. It is chock-full of formulas for measuring fuzziness

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(uncertainties in measurement scales) and probabilistic uncertainty (variants of Shannon ...

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