

fuzzy probabilities and fuzzy pdf

Fuzzy logic and the calculi of fuzzy rules, fuzzy graphs, and fuzzy probabilities The past few years have witnessed a rapid growth in the number and variety of applications of fuzzy logic, ranging from

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What Is Fuzzy Probability Theory? S. Gudder¹ Received March 4, 1998; revised July 6, 2000 The article begins with a discussion of sets and fuzzy sets. It is observed that iden- ... only probabilities. The imprecision in probability theory comes from our incomplete knowledge of the system but the random variables (measure-

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Fuzzy logic is a logic of vague, imprecise notions and proposition that may be more or less true, then it is logic of partial degrees of truth.

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In the calculus of fuzzy probabilities, probabilities are assumed to be represented as fuzzy rather than crisp numbers. In a related way, probability distributions are represented as fuzzy graphs. A major aim of CFP is to provide a framework for linguistic decision analysis--a type of qualitative analysis in which fuzzy numbers and fuzzy graphs ...

Fuzzy logic and the calculi of fuzzy rules, fuzzy graphs

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Fuzzy Set Theory-and Its Applications, Fourth Edition

James J. Buckley Fuzzy Probabilities Studies in Fuzziness and Soft Computing Editor-in-chief Prof. Janusz Kacprzyk Systems Research Institute Polish Academy of Sciences ul.

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PROBABILITY THEORY AND FUZZY LOGIC zHow does fuzzy logic relate to probability theory? zThis is the question that was raised by Loginov in 1966, shortly after the publication ... imprecise probabilities,â€• special issue on imprecise probabilities, Journal of Statistical Planning and Inference, Vol. 105, pp.233-264, 2002.

Probability theory and fuzzy logic - Kenneth Hanson

2 FuzzyStatProb: fuzzy stationary probability estimation in Markov chains from data When the probabilities $P[X_{t+1} = x_{t+1} | X_t = x_t]$ do not depend on the time points $t; t+ 1$ but only on the time di erence h between them, the chain is said to be homogeneous (in the

FuzzyStatProb: fuzzy stationary probability estimation in

between fuzzy logic and probability must start by makÂ- ... 1994]; fuzzy propositions about probabilities are also discl'3Sed in !Zimmermann, 19911. Our aim is to describe a fuzzy theory in the frame of the truthÂ- ...

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that fuzzy sets are at work ; similarly the fact that sometimes $P(A \hat{=} B) = \max(P(A), P(B))$ (e.g. if $A \hat{=} B$) is not enough to claim that fuzzy sets are probabilities.

Fuzzy sets and probability : Misunderstandings, bridges

Thus probabilities of fuzzy events can be logically induced. The philosophical underpinnings that make this happen are a subjectivistic interpretation of probability, an introduction of Laplace's famous genie, and the mathematics of encoding expert testimony.

Membership Functions and Probability Measures of Fuzzy Sets

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(PDF) An Approach to Interval Fuzzy Probabilities

7th International Symposium on Imprecise Probability: Theories and Applications, Innsbruck, Austria, 2011
Structural Reliability Assessment with Fuzzy Probabilities

Structural Reliability Assessment with Fuzzy Probabilities

Abstract. Various forms of probability and probabilistic concepts have been discussed in fuzzy logic since its very inception, but their mathematical foundations have yet to be fully established.

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