Fuzzy sets and probability: Misunderstandings, bridges and gaps

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- Fuzzy sets VS. probability
 - common misunderstandings
 - existing bridges
 - GAPS???

Overview

- 1 Misunderstandings
 - Membership Function and Probability Measure
 - Fuzzy Relative Cardinality and Conditional Probability
 - Possibility Theory is not Compositional
- 2 Bridges
 - Upper probability
 - Random Sets and Belief Functions
 - Likelihood Function
 - Fuzzy Sets in Statistical Inference
 - Probabilistic Interpretations of Fuzzy Set Operations
 - Possibility Degrees as Infinitesimal Probabilities
- 3 GAPS???

Misunderstandings

Membership Function and Probability Measure

TODO!!!

Misunderstandings

Fuzzy Relative Cardinality and Conditional Probability

TODO!!!

Misunderstandings

Possibility Theory is not Compositional

TODO!!!

Fuzzy sets and probability Bridges

Upper probability

TODO!!!

Bridges

Random Sets and Belief Functions

TODO!!!

Bridges

Likelihood Function

TODO!!!

Bridges

Fuzzy Sets in Statistical Inference

TODO!!!

Probabilistic Interpretations of Fuzzy Set Operations

TODO!!!

Bridges

Possibility Degrees as Infinitesimal Probabilities

TODO!!!

LGAPS???

GAPS???

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