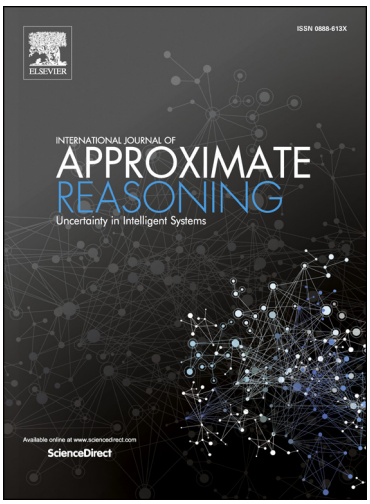
Accepted Manuscript



The Likelihood Interpretation as the Foundation of Fuzzy Set Theory

Marco E.G.V. Cattaneo

PII: S0888-613X(17)30510-8
DOI: http://dx.doi.org/10.1016/j.ijar.2017.08.006
Reference: IJA 8103

To appear in: *International Journal of Approximate Reasoning*

Received date: 9 January 2017
Revised date: 16 June 2017
Accepted date: 14 August 2017

Please cite this article in press as: M.E.G.V. Cattaneo, The Likelihood Interpretation as the Foundation of Fuzzy Set Theory, *Int. J. Approx. Reason.* (2017), http://dx.doi.org/10.1016/j.ijar.2017.08.006

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- The interpretation of fuzzy sets in terms of statistical likelihood is reviewed.
- A sound justification for the basic rules of fuzzy set theory is provided.
- The meaning of independence between epistemic fuzzy sets is clarified.
- The direct inclusion of fuzzy data in standard statistical analyses is made possible.
- The agreement between fuzzy inference and likelihood theory is emphasized.

Download English Version:

https://daneshyari.com/en/article/4945199

Download Persian Version:

https://daneshyari.com/article/4945199

Daneshyari.com