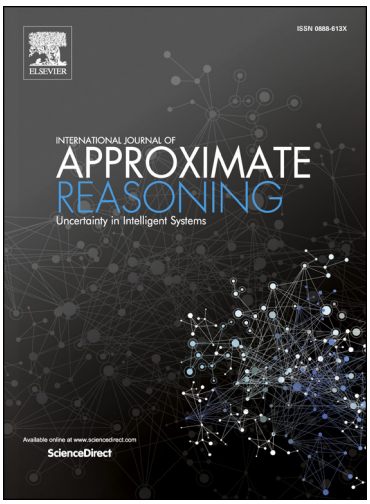
Accepted Manuscript



Likelihood-fuzzy analysis: From data, through statistics, to interpretable fuzzy classifiers

Marco Pota, Massimo Esposito, Giuseppe De Pietro

PII: S0888-613X(17)30659-X
DOI: https://doi.org/10.1016/j.ijar.2017.10.022
Reference: IJA 8142

To appear in: *International Journal of Approximate Reasoning*

Received date: 17 October 2016
Revised date: 4 October 2017
Accepted date: 16 October 2017

Please cite this article in press as: M. Pota et al., Likelihood-fuzzy analysis: From data, through statistics, to interpretable fuzzy classifiers, *Int. J. Approx. Reason.* (2017), https://doi.org/10.1016/j.ijar.2017.10.022

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

- Statistics enables to summarize information embedded in the dataset.
- Fuzzy logic can enable to build a transparent and interpretable knowledge base.
- Likelihood-Fuzzy Analysis is proposed to join both advantages in data classification.
- It can handle heterogeneous features, missing data, and measure class probabilities.
- It shows high predictability and model interpretability, compared with other methods.

Download English Version:

https://daneshyari.com/en/article/6858825

Download Persian Version:

https://daneshyari.com/article/6858825

Daneshyari.com