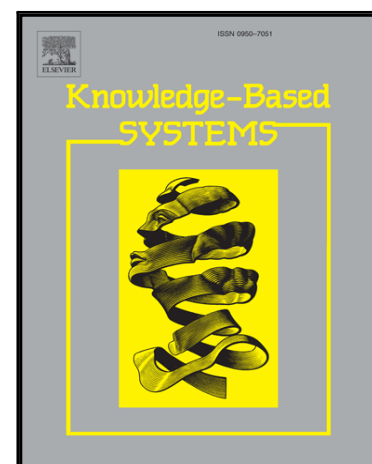


Accepted Manuscript

Interpretable interval type-2 fuzzy predicates for data clustering: a new automatic generation method based on self-organizing maps

Diego S. Comas , Juan I. Pastore , Agustina Bouchet ,
Virginia L. Ballarin , Gustavo J. Meschino

PII: S0950-7051(17)30331-3
DOI: [10.1016/j.knosys.2017.07.012](https://doi.org/10.1016/j.knosys.2017.07.012)
Reference: KNOSYS 3976



To appear in: *Knowledge-Based Systems*

Received date: 17 February 2017
Revised date: 6 June 2017
Accepted date: 13 July 2017

Please cite this article as: Diego S. Comas , Juan I. Pastore , Agustina Bouchet , Virginia L. Ballarin , Gustavo J. Meschino , Interpretable interval type-2 fuzzy predicates for data clustering: a new automatic generation method based on self-organizing maps, *Knowledge-Based Systems* (2017), doi: [10.1016/j.knosys.2017.07.012](https://doi.org/10.1016/j.knosys.2017.07.012)

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

- A new clustering based on interval type-2 fuzzy predicates and SOMs is proposed.
- SOMs are automatically configured and trained.
- Fuzzy predicates are generated using cluster prototypes extracted from SOMs.
- Linguistic knowledge is obtained from the predicates automatically generated.
- The proposed method overcome existing clustering methods based on fuzzy predicates.

Download English Version:

<https://daneshyari.com/en/article/4946113>

Download Persian Version:

<https://daneshyari.com/article/4946113>

[Daneshyari.com](https://daneshyari.com)