



## Logical characterization of groups of data: a comparative study

Submitted by Frédéric Lardeux on Mon, 12/18/2017 - 17:11

Titre	Logical characterization of groups of data: a comparative study
Type de publication	Article de revue
Auteur	Chambon, Arthur [1], Boureau, Tristan [2], Lardeux, Frédéric [3], Saubion, Frédéric [4]
Editeur	Springer Verlag
Type	Article scientifique dans une revue à comité de lecture
Année	2018
Langue	Anglais
Date	06 Nov. 2017
Numéro	8
Pagination	2284-2303
Volume	48
Titre de la revue	Applied Intelligence
ISSN	0924-669X
Mots-clés	Characterization of multiple groups of data [5], Logical analysis of data [6]
Résumé en anglais	<p>This paper presents an approach for characterizing groups of data represented by Boolean vectors. The purpose is to find minimal set of attributes that allow to distinguish data from different groups. In this work, we precisely defined the multiple characterization problem and the algorithms that can be used to solve its different variants. Our data characterization approach can be related to Logical Analysis of Data and we propose thus a comparison between these two methodologies. The purpose of this paper is also to precisely study the properties of the solutions that are computed with regards to the topological properties of the instances. Experiments are thus conducted on real biological data.</p>
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua16544">http://okina.univ-angers.fr/publications/ua16544</a> [7]
DOI	10.1007/s10489-017-1080-3 [8]
Lien vers le document	<a href="https://link.springer.com/article/10.1007%2Fs10489-017-1080-3">https://link.springer.com/article/10.1007%2Fs10489-017-1080-3</a> [9]
Titre abrégé	Appl Intell

---

### Liens

- [1] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=25617>
- [2] <http://okina.univ-angers.fr/t.boureau/publications>
- [3] <http://okina.univ-angers.fr/frederic.lardeux/publications>
- [4] <http://okina.univ-angers.fr/frederic.saubion/publications>
- [5] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=24132>

[6] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=24131>

[7] <http://okina.univ-angers.fr/publications/ua16544>

[8] <http://dx.doi.org/10.1007/s10489-017-1080-3>

[9] <https://link.springer.com/article/10.1007%2Fs10489-017-1080-3>

Publié sur *Okina* (<http://okina.univ-angers.fr>)