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New fuzzy decision tree model for text classification (Conference Paper)Wahiba, B.A.^a, Ahmed, B.E.F.^b^a Kingdom of Saudi Arabia, Taif University, Taif, Saudi Arabia^b Higher Institute of Management, Tunis University, Tunis, Tunisia**Abstract**[View references \(13\)](#)

In this paper, a supervised automatic text documents classification using the fuzzy decision trees technique is proposed. Whatever the algorithm used in the fuzzy decision trees, there must be a criterion for the choice of discriminating attribute at the nodes to partition. For fuzzy decision trees two heuristics are usually used to select the discriminating attribute at the node to partition. In the field of text documents classification there is a heuristic that has not yet been tested. This paper tested this heuristic. © Springer International Publishing Switzerland 2016.

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Fuzzy decision trees; Text classification; Text document

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 Sebastiani, F.
1 **Machine Learning in Automated Text Categorization**(2002) *ACM Computing Surveys*, 34 (1), pp. 1-47. Cited 3292 times.

doi: 10.1145/505282.505283

[View at Publisher](#) 
 Janikow, C.Z., Kawa, K.
2 **Fuzzy decision tree FID**(2005) *Annual Conference of the North American Fuzzy Information Processing Society - NAFIPS*, 2005, art. no. 1548565, pp. 379-384. Cited 3 times.

doi: 10.1109/NAFIPS.2005.1548565

[View at Publisher](#) 
 Matiasko, K., Bohacik, J., Levashenko, V., Kovalik, S.

3 Learning fuzzy rules from fuzzy decision tree

(2006) *J. Inf. Control Manage. Syst.*, 4 (2), pp. 143-154. Cited 2 times.
 Quinlan, J.R.
4 **Induction of Decision Trees**(1986) *Machine Learning*, 1 (1), pp. 81-106. Cited 6235 times.

doi: 10.1023/A:1022643204877

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(2009) *Journal of Informetrics***Prequery discovery of domain-specific query forms: A survey**

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- Wang, X., Chen, B., Qian, G., Ye, F.
5 **On the optimization of fuzzy decision trees**
(2000) *Fuzzy Sets and Systems*, 112 (1), pp. 117-125. Cited 100 times.
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- Wang, Y., Wang, Z.-O.
6 **Text categorization rule extraction based on fuzzy decision tree**
(2005) *2005 International Conference on Machine Learning and Cybernetics, ICMLC 2005*, pp. 2122-2127. Cited 4 times.
ISBN: 078039092X; 978-078039092-8

- Yuan, Y., Shaw, M.J.
7 **Induction of fuzzy decision trees**
(1995) *Fuzzy Sets and Systems*, 69 (2), pp. 125-139. Cited 488 times.
doi: 10.1016/0165-0114(94)00229-Z
[View at Publisher](#) 
- Raheel, S.
8 L'apprentissage artificiel pour la fouille de données multilingues: Application pour la classification automatique des documents arabes
(2010) *Ph.D. thesis defended on October, 22*.
2010. Higher National School of Information and Communication Sciences, University of Lyon 2
- Rehel, S.
9 (2005) *Categorisation automatique de textes et cooccurrence de mots provenant de documents non étiquetés*
Faculty of Science and Engineering, University LAVAL, QUEBEC
- Witten, I.H., Frank, E.
10 (2005) *Data mining: Practical Machine Learning Tools and Techniques, 2nd edn*, p. 2005. Cited 12613 times.
Morgan Kaufmann, San Francisco, CA
- (2007) *Reuters*
11 <http://www.cs.umb.edu/smimarog/textmining/datasets>
- Cardoso-Cachopo, A., Oliviera, A.L.
12 Semi supervised single label text categorization using centroid-based classifiers
(2007) *SAC'07 11-15 March 2007*
Seoul, Korea
- Yang, Y., Pederson, J.
13 A comparative study on feature selection in text categorization
(1997) *The Proceedings of the Fourteenth International Conference on Machine Learning (ICML'97)*, pp. 412-420. Cited 2361 times.
Fisher, J.D.H. (ed.)

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