Abstract

This paper shows document clustering by applying fuzzy logic. The method involves cleaning up the text and stemming of words. Then, chose ‘m’ features which differ significantly in their...
word frequencies (WF), normalized by document length, between documents belonging to these two clusters. The documents to be clustered are represented as a collection of ‘m’ normalized WF values. Then use Fuzzy c-means (FCM) algorithm to cluster these documents into two clusters. After the FCM execution finishes, the documents in the two clusters are analyzed for the values of their respective ‘m’ features. By using fuzzy logic, we not only get the cluster name, but also the degree to which a document belongs to a cluster.

References

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Index Terms

Computer Science Fuzzy Systems

Keywords

Fuzzy c-means algorithm, fuzzy logic, Document clustering