Document clustering is an automatic grouping of text documents into clusters so that
documents within a cluster have high similarity values among one another, but dissimilar to
documents in other clusters. It has wide applications in areas such as search engines, web
mining, information retrieval and topological analysis. This paper presents a new document
clustering algorithm using the concept of fuzzy sets, where each cluster is viewed as a fuzzy set
over some finite universal set. The algorithm was implemented and the results are reported.
The efficiency and time complexity of the algorithm have also been discussed.

References

3. J. C. Bezdek, “Pattern Recognition with Fuzzy Objective Function Algorithm”, Plenum


**Index Terms**

Computer Science

Pattern Recognition

**Keywords**

Document Clustering, Fuzzy Set, Agglomerative Algorithm, Compact Representation.