Abstract

Spatial clustering is a process of grouping a set of spatial objects into groups, these groups are called clusters. Objects within a one cluster show a high degree of similarity, whereas the objects in another cluster are as much non-similar as possible. Clustering is a very well known technique of data mining which is mostly used method of analyzing and describing the data. It is one of the techniques to deal with the large geographical datasets. Clustering is the mostly used method of data mining. SOM and k-means are two classical methods for clustering. This paper illustrates the approach of clustering: Kohonen SOM and K-Means have been discussed and compared using different parameters on same dataset. After comparing these methods effectively, results of the experiments suggest that Self-Organizing Maps (SOM) is more robust to outlier than the k-means method. In this paper, experiments have been performed to
compare the performances of clustering algorithms.

References

Comparative Study and Performance Analysis of Clustering Algorithms


Index Terms
Computer Science  Algorithms

Keywords
Spatial Clustering  Clustering Algorithms  Som  K-means  Pca  Etc.