

## عنوان مقاله:

Select optimal k in the k-means clustering algorithm

## محل انتشار:

اولین کنفرانس مُلی بهینه سازی و روش های نوین حل مسئله (سال: 1400)

تعداد صفحات اصل مقاله: 9

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#### خلاصه مقاله:

Clustering is one of the most important machines for learning unseen algorithms. Data is not labeled inclustering. The starting point of clustering is very important. Choosing the right number of spikes forclustering is like choosing the right seed. The performance of the algorithm depends on selecting theappropriate number of clusters and selecting the optimal centers. Cluster quality and optimal number of clusters are important in cluster analysis. In this article, we have tried to differentiate our work fromother existing articles by careful analysis and comparison of existing algorithms, and a clear andaccurate understanding of all aspects. Research compared to other articles Due to the importance of Smart Clustering). The proposed SONSC algorithm provides an index that can performclustering with higher accuracy by considering the three criteria of minimum internal distance betweenpoints of a cluster and cluster and cluster and cluster and cluster and cluster and cluster of a cluster and cluster of the aspect.

# کلمات کلیدی:

Clustering algorithms, K-means, clustering, optimal number of clusters

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