

Scalable K-means++

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Abstract

K-means algorithm is one of the most popular clustering algorithm. A crucial part of k-means algorithm is the choice of initial centers while a poor initial centers may lead to locally optimal solution. To beat this, the k-means++ initialization is proposed to obtain an initial set of centers that is close to the global optimum solution. However, the k-means++ is not scalable. The paper introduces a scalable k-means algorithm...

- 1. Introduction**
- 2. Implementation**
- 3. Testing**
- 4. Optimization**
- 5. High performance computing**
- 6. Application and comparison**

Appendix