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.

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

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Appendix