

Peer Review

Review of: "Fixed-Sized Clusters k-Means"

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This paper proposes a modified k-means with added fixed-sized clusters aimed at certain applications that require equal sizes for each cluster.

Overall, the paper is acceptable but needs to be improved as follows:

- 1) Can you provide examples of specific real-world applications that would benefit from fixed-sized clusters, and why they are important? I think a seating plan should also be included.
- 2) In the Fixed-sized clusters k-means section, it is not clear what "the role" of the assignment problem (Hungarian algorithm) is for the fixed-sized clusters. In the assignment problem, basically, each person is assigned to exactly one job and each job is assigned to exactly one person. How is it associated with cluster slots? In fact, figures 1 and 2 could be improved to enhance understanding of the assignment problem's role in achieving fixed-sized clusters.
- 3) The proposed algorithm was tested for a case study – the seating plan – and reported that "People were happy with the seating plan." What specific quantitative metrics could be used to measure the success of the seating plan generated by the algorithm?

Declarations

Potential competing interests: No potential competing interests to declare.