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Title: A Modified Bee Colony Optimization (MBCO) and it's hybridization with k-means for an application to data clustering

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Highlights:

- In this paper, a modified BCO (MBCO) approach is proposed for data clustering.
- In the proposed MBCO, cloning and fairness concepts are used to improve the quality of clustering solution.
- For every stage of allocation only data points which are unallocated in the previous stages of allocation are considered.
- To obtain more diverse solution, a probability based selection (*Pbselection*) approach is proposed to assign the unallocated data to clusters in each iteration.
- Next, to improve the convergence time, the current solution (centroid values) is always compared with the previous best solution.
- In-order to get global optimal and diverse solution, two hybridized approaches, i.e. MKCLUST and KMCLUST are proposed.

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