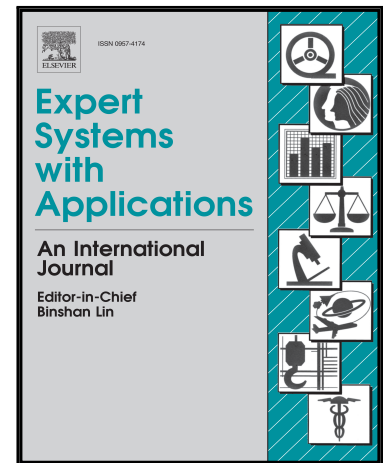


## Accepted Manuscript

Efficient algorithms based on the k-means and Chaotic League Championship Algorithm for numeric, categorical, and mixed-type data clustering

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## Highlights

- The search algorithm C-LCA is done by adding two chaotic parameters into the LCA.
- The search clustering using CS-LCA and the KSC-LCA algorithms are proposed.
- The Gower distance and a mechanism are adopted for handling the mixed-type data.
- The search clustering CS-LCA ranks first for the pure categorical data.
- The KSC-LCA ranks first for the pure numeric and mixed-type data.

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