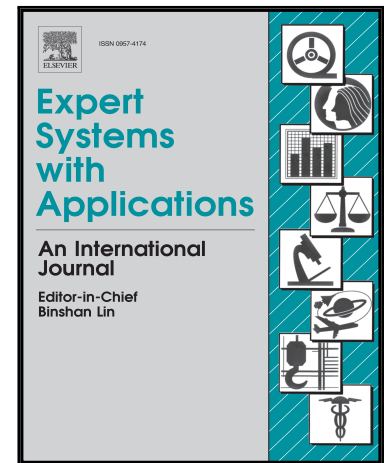


## Accepted Manuscript

An Improved Overlapping k-Means Clustering Method for Medical Applications

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**Highlights**

- The sensitivity of overlapping k-means algorithm to initialization is considered.
- The k-harmonic means method is effective for identifying initial cluster centroids.
- The proposed approach outperforms the original overlapping k-means algorithm.

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