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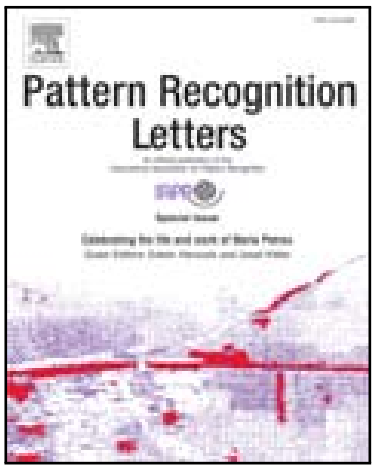

A New Clustering Validity Index for Arbitrary Shape of Clusters

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Highlight

- Development of a novel cluster validity index (CVI) based on a support vector algorithm.
- Compactness measure of clusters in the kernel space instead of original domain.
- The proposed CVI is insensitive to arbitrary shapes of clusters, sub-clusters, and outliers.
- The experimental results obtained from diverse applications shows the superiority of the proposed CVI.

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