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New internal index for clustering validation based on graphs

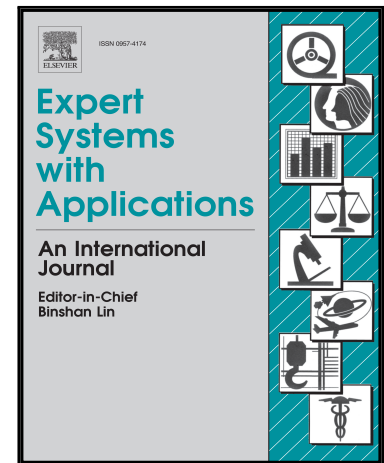
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Highlights

- Minimum spanning tree graph-based clustering is applied
- The concept "cohesion" is introduced to measure the clusters quality and distance
- A new internal validation index that captures the geometry of cluster is defined
- It has been proved effective on 16 datasets of different shapes and sizes
- The two versions of the new index show better performance than traditional ones

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