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An uncertainty perspective to PCM and APCM clustering

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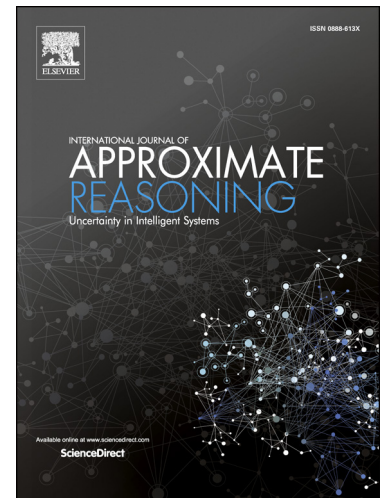
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Highlights

- The clustering process can be effectively controlled after incorporating uncertainty into the membership function via a conditional fuzzy set.
- We introduce the α parameter to characterize closeness of clusters in the clustering result.
- Both the cluster number m_{ini} and parameter α are not required to be exactly specified for the clustering task.

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