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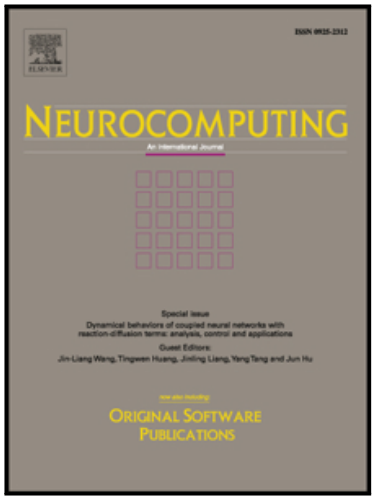

Randomized neural network based descriptors for shape classification

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Highlights

- In this study, we model a shape contour as an extreme learning machine (ELM).
- ELM is a single-hidden layer feed forward neural network with a very fast learning algorithm.
- We developed three approaches to model the contour points as input and label of the ELM.
- We use the output weights of the ELM as a feature vector for shape classification.

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