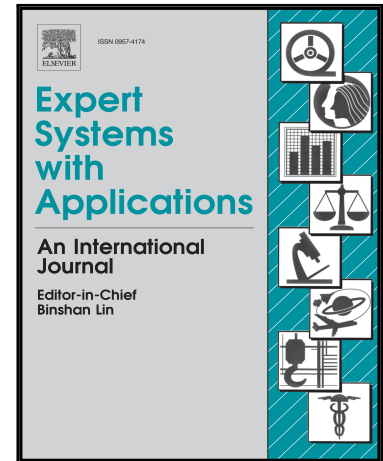


## Accepted Manuscript

A new hybrid approach for feature selection and Support Vector Machine model selection based on Self-Adaptive Cohort Intelligence

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**Highlights**

- The limitations of cohort intelligence algorithm are identified.
- A new variation of cohort intelligence algorithm is proposed.
- The proposed algorithm employs self-adaptive scheme and mutation operator.
- A new hybrid approach for feature selection and SVM model selection is proposed.
- The proposed algorithm outperforms the original cohort intelligence algorithm.

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