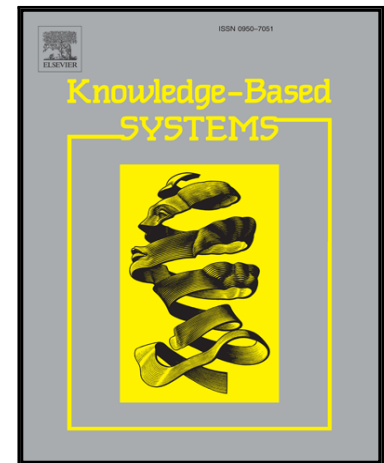


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Decision Support System to Improve Postoperative Discharge: A Novel Multi-Class Classification Approach

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HIGHLIGHTS

- We developed a novel hybrid algorithm for improving postoperative discharge decision making.
- We compared the performance of the hybrid algorithm against state-of-the-art classifiers.
- We also compared the performance of the hybrid algorithm against models from published studies.
- Optimisation of kernel and hyperparameters can improve the overall classification performance.
- Genetic Algorithm led to a higher control over the decision boundary in the hybrid model.

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