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An Iterated Multi-stage Selection Hyper-heuristic

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## Highlights

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- We introduce a new general "multi-stage" hyper-heuristic framework
- The framework enables the use of multiple hyper-heuristics at different stages
- We propose a multi-stage hyper-heuristic based on the designed frame-work
- The approach outperformed the state-of-the-art approach from CHeSC2011
- The overall performance outperformed performance of each constituent hyper-heuristic

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