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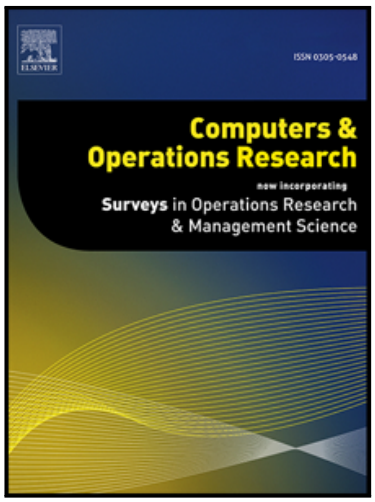

Random Partial Neighborhood Search for the Post-Enrollment Course Timetabling Problem

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Highlights

- A local search-based algorithm that incorporates a mechanism for adapting the neighborhood size during the course of the search is developed for the post-enrollment-based course timetabling problem.
- The trade-off between exploration and exploitation during search can be controlled simply by adjusting the neighborhood size.
- The proposed local search-based algorithm with an appropriate updating strategy for the neighborhood size and neighborhood structure obtains highly competitive performance compared with the leading solvers developed for the well-known Socha et al., ITC-2002, and ITC-2007 benchmark sets, despite its simplicity.

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