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A memetic algorithm for the orienteering problem with mandatory visits and exclusionary constraints

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Highlights

- Backbone-based crossover combined with dedicated tabu search
- Alternating exploration in feasible and infeasible regions by constraint relaxation
- Competitive results with respect to both exact and heuristic approaches
- Hybridization of memetic algorithm with integer programming
- Proven optima for about 87 % of the problem benchmark

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