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Attractive Orienteering Problem with Proximity and Timing Interactions

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Highlights

- We consider an attractive orienteering problem for planning entertainment events
- A novel attraction measure accounts for events nearby in time and location
- We develop a mathematical programming model and two heuristics for the problem
- We compare the performance of all methods for regional and national tours in the U.S.
- A scatter search-based heuristic outperforms all other methods

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