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The Time-Dependent Capacitated Profitable Tour Problem with Time Windows and Precedence Constraints

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Highlights

- A new pickup and delivery problem with time dependent travel times is introduced.
- Both an exact and heuristic procedure are defined to solve this problem.
- Novel and strong dominance criteria are used to speed up the procedures.
- The exact algorithm is able to solve instances with up to 150 locations.
- The fast heuristic is able to find optimal solutions for 32 out of the 34 instances.

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