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A Branch-and-Cut Framework for the Consistent Traveling Salesman Problem

Anirudh Subramanyam, Chrysanthos E. Gounaris

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Highlights

- We study multi-period routing problems with arrival-time consistency requirements.
- We present the first-ever exact method for the Consistent Traveling Salesman Problem.
- We propose novel valid inequalities and associated separation techniques.
- Instances with up to 50 customers and 5 periods are solved to guaranteed optimality.
- Consistency can be enforced with a modest ($< 2\%$ on average) increase in routing costs.

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