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A double-loop hybrid algorithm for the traveling salesman problem with arbitrary neighbourhoods

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### Highlights

- A collaboration-based double-loop hybrid algorithm is proposed.
- Neighbourhoods are generalized to arbitrarily connected regions in Euclidean space.
- A novel boundary-based encoding scheme for obtaining the solution is presented.
- The proposed algorithm can obtain a high-quality path in a reasonable time.
- This work makes the traveling salesman problem more practical in real applications.

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