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Solving air traffic conflict problems via local continuous optimization

Clément Peyronne, Andrew R. Conn, Marcel Mongeau,
Daniel Delahaye

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Highlights

- Original compact trajectory model using B-splines.
- New semi-infinite programming formulation of the separation constraint.
- New continuous optimization formulation of the tactical conflict-resolution problem.
- Numerical experiments show viability of the approach on realistic test problems.
- Local continuous optimization methods is competitive with the traditional, discretised combinatorial approaches to this problem.

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