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Mixed-Integer Nonlinear Programming for Aircraft Conflict Avoidance  
by Sequentially Applying Velocity and Heading Angle Changes

Sonia Cafieri, Riadh Omhenni

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**Highlights**

- An emerging application of Operations Research arising in Air Traffic Management is considered.
- A new MINLP formulation for aircraft conflict avoidance is proposed.
- A two-step approach is proposed based on sequentially applying heading and speed changes.
- Numerical experiments clearly show the benefit of the proposed methodological approach.

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