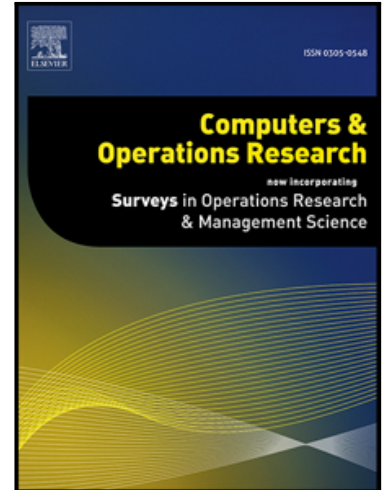


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Aircraft parking stand allocation problem with safety consideration for independent hangar maintenance service providers

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Highlights

- An aircraft stand allocation problem in a maintenance hangar for an independent MRO service provider is addressed
- The original No-Fit Polygons (NFP) are revised to separate aircraft by given safety margins
- A Mixed Integer Programming (MIP) based two-phase approach is proposed to solve the problem
- A heuristic is proposed to provide the solution for practical use in real situations
- Numerical studies analyze the values of the proposed models and heuristic

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