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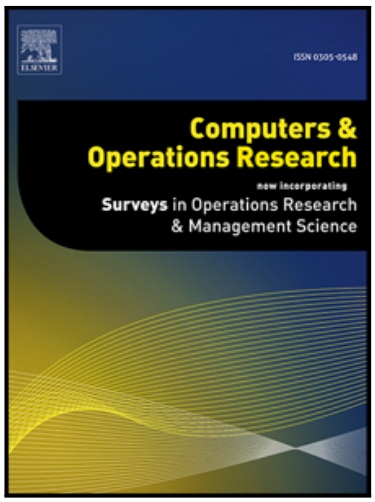

A sustainable aggregate production planning model for the chemical process industry

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Highlights

- A holistic model-based approach to sustainable production planning provided
- Enables hierarchically integrated production planning in chemical process industry
- Benchmark problem formulated for numerical analyses
- Sensitivity analysis of cost & non-cost parameters illustrates variability impacts
- Pareto analysis reveals conflicts and complementarities of sustainability goals

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