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Stochastic Lot Sizing Problem with Nervousness Considerations

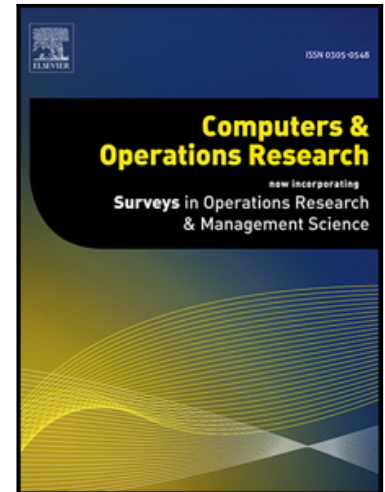
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Highlights

- The multistage stochastic lot sizing problem with controllable processing times under nervousness considerations is introduced.
- Setup oriented nervousness is eliminated, and quantity oriented nervousness is controlled by a new concept called promised production amounts.
- The problem is reformulated by using the conic strengthening, the extended formulation for continuous mixing sets, and the mixing inequalities.
- Nervousness costs could be significantly reduced and more stable production schedules generated with a relatively small increase in total cost.

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