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Optimizing automated sorting in warehouses: The minimum order spread sequencing problem

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Highlights

- We treat a real-world e-commerce warehouse with two-stage order processing
- The release sequence from an automated storage/retrieval system is optimized
- A deterministic surrogate objective (minimize the expected order spreads) is used
- Computational complexity is investigated and efficient algorithms are developed
- A simulation study investigates managerial aspects of order accumulation

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