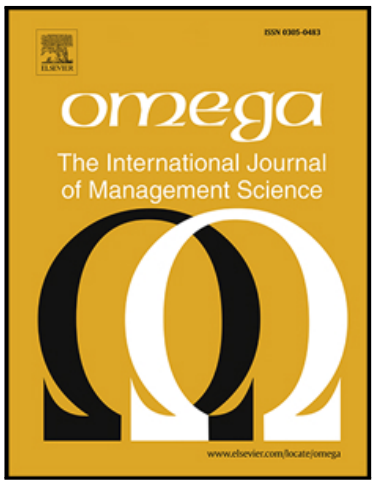

Resequencing mixed-model assembly lines with restoration to customer orders

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Highlights

- We propose a model for optimizing mixed-model assembly sequences for suppliers.
- The model is constrained by the restoration of a customer sequence via mix banks.
- A limited look-ahead approach solves problems of practical sizes in a small time.
- Savings of $> 50\%$ against producing the customer sequence are realized on average.
- The results give insights into the design of capacity and parameters of the system.