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Classifying and modeling setups and cleanings in lot sizing and scheduling

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Highlights

- A novel classification scheme for setups and cleanings is developed.
- Lot sizing and scheduling model captures setups and cleanings in flowshops.
- Industry case on cheese production demonstrates value of developed approach.
- Results show that flexible changeover starting times significantly reduce makespan.
- Numerical tests show that heterogeneous processing times reduce machine downtime.

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