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A Simulation-Based Study of Dispatching Rules in a Dynamic Job Shop Scheduling Problem with Batch Release and Extended Technical Precedence Constraints

Hegen Xiong , Huali Fan , Guozhang Jiang , Gongfa Li

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**Highlights**

- A DJSP model with batch release and extended technical precedence constraints aiming at the mould & die manufacturing industry is proposed.
- The disjunctive graph model of the JSP with extended technical precedence constraints is presented.
- Four new dispatching rules are developed with the aim to perform well under tardiness-related performance measures.
- The effectiveness of the new proposed rule is validated, and the influences of the model parameters on dispatching rules are investigated.

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