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Multi-agent based scheduling in manufacturing cells in a dynamic environment

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Abstract

Manufacturing systems need to develop more strongly time-oriented strategies in order to react to the dynamic conditions of the competitive environment. This research concerns the scheduling of cellular manufacturing systems by multi-agent architecture in real time. This research proposes a coordination approach for the multi-agent

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simulation results highlight that the performance of the proposed approach outperforms the performance of the benchmark in all conditions.

Q Keywords: multi-agent systems scheduling negotiation dynamic environment

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