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Two-Agent Single-Machine Scheduling with Resource ...

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Multi-Machine Scheduling - A Multi-Agent Learning Approach

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Abstract. The emergence of Industry 4.0 allows for new approaches to solve industrial problems such as the Job Shop Scheduling Problem. It has been demonstrated that Multi-Agent Reinforcement Learning approaches are highly promising to handle complex scheduling scenarios. In this work we propose a user friendly Multi-Agent Reinforcement Learning tool, more appealing for industry.

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Multi-Agent Reinforcement Learning Tool for Job Shop ...

Multi machine scheduling: an agent-based approach - CiteSeerX

Multi Machine Scheduling: An Agent-Based Approach. Rama Akkiraju, Pinar Keskinocak, Sesh Murthy and Frederick Wu, IBM T. J. Watson Research Center. Scheduling of multiple parallel machines in the face of sequence dependent setups and downstream considerations is a hard problem. No single efficient algorithm is guaranteed to produce optimal results.

We have built agents each of which encapsulates a different problem solving strategy for solving the multi-machine scheduling problem. The A-team framework enables the agents to cooperate to produce better results than those of any individual agent.

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Abstract. We present a new agent-based solution approach for the problem of scheduling multiple non-identical machines in the face of sequence dependent setups, job machine restrictions, batch size preferences, fixed costs of assigning jobs to machines and downstream considerations. We consider multiple objectives such as minimizing (weighted) earliness and tardiness, and minimizing job-machine assignment costs.

Multiagent Scheduling - Lagout

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