

Incorporating Ergonomic Aspects into Production Planning

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Abstract

Mitigation of ergonomic risks, or risks for health of workers, is a high-priority objective in manufacturing. We draw attention, that consideration of ergonomic risks can be integrated into the *planning routines*. We emphasize the necessity to develop Operations Research models and effective solution methods to assist industrial engineers during such a planning process.

On the example of a mid-term planning problem of assembly line balancing, we illustrate the effectiveness of the proposed approach. We also provide insights into the hindrances along the implementation of our methodology in a real-world production and how we overcame them.