Workload Control and Order Release: Simulation and Optimization

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is dedicated to the latest finding on workload control (WLC) and order release in order to provide a simple and effective production planning and control (PPC) solution that is especially, but not exclusively, suitable for small- and medium-sized make-to-order (MTO) companies. The main limits of the literature can be summarized as the static computation of the workload, and that it does not take unforeseen events into account; the cases investigated are limited to directional routing of the jobs and classical manufacturing systems. Furthermore, several WLC models have evolved that include optimization models on a mid-term planning level. The main issues with these models are their parameterization, and most cases are limited to the semiconductor industry.

Keywords:

- work load control
- order release
- Industry 4.0
- additive manufacturing
- responsiveness

Special Issue

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Message from the Editor-in-Chief

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