Special Issue

Workload Control and Order Release: Simulation and Optimization

Message from the Guest Editors

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

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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