

Special Issue

Production Scheduling and Planning in Manufacturing Systems

Message from the Guest Editor

The focus of this special issue is on two important practice-relevant aspects that are the subject of intense research: the consideration of limited capacities and the handling of uncertainty. Planning models and procedures should be addressed. Traditionally, heuristics and optimization models are used. The possibilities of extending these to include artificial intelligence methods should form a focal point. The papers may frame operational production planning and control as the backbone of production process planning in commercially available IT systems. These approaches are welcome to be implemented in industrial practice. The following topics serve as examples, but are by no means exhaustive.

- Modelling and consideration of uncertainty through forecasting, inventory strategies, safety stocks, scenario technology, and stochastic optimization.
- Planning improvement through resource-constrained project scheduling.
- Lot sizing under capacity restrictions.
- Simulation and optimization.

For detailed information, please visit:

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Guest Editor

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Message from the Editor-in-Chief

Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

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