Special Issue

Reconfigurable Production Systems

Message from the Guest Editors

Today, customer requirements tend to be more customized, and the market is volatile. This was further amplified during the global pandemic with the sudden increase in the price of certain products, such as masks and hand sanitizers. This shows the importance for companies to be able to adapt quickly and cost-effectively to market changes using flexible or reconfigurable systems. Industry 4.0 brings technical solutions for agile systems, both in terms of machines (with cobots, reconfigurable machines, etc.) and information systems (interoperability, IoT, etc.). However, many challenges remain in terms of optimizing these systems, from the design phase to operational management. This Special Issue aims to gather the latest contributions to optimize flexible or reconfigurable production systems. Special emphasis will be placed on reproducible algorithmic methods. The Special Issue will focus on the following points:

- Solution methods for the design of flexible or reconfigurable production systems;
- Solution methods for the management of flexible or reconfigurable production systems;
- Integration of sustainability aspects in production systems;
- etc.

Guest Editors

Dr. Audrey Cerqueus
LIMOS, École des Mines de Saint-Étienne, 42023 Saint-Etienne, France

Prof. Dr. Marc Sevaux
Lab-STICC, University of South Brittany, F56321 Lorient, France

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

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