

Special Issue

Scheduling and Optimization in Production and Transportation Systems

Message from the Guest Editors

Production systems and transportation systems are inherently complex due to various complex factors such as various dynamic disruptions, capacity limitations, and large-scale problems. Scheduling plays a crucial role in both production and transportation systems. However, these complex factors make mathematical modeling and obtaining optimal solutions highly challenging, often necessitating a trade-off between computational performance and solution quality. Scheduling and optimization are crucial components in this new industrial paradigm. By leveraging real-time data, advanced analytics, and automation, businesses can achieve unprecedented levels of efficiency, agility, and sustainability. This involves the strategic allocation of resources and the sequencing of tasks to maximize efficiency, reduce costs, and improve overall system performance. Therefore, comprehensive applications of various optimization methodologies hold enormous potential in addressing challenges in production and transportation systems.

Guest Editors

Dr. Peng Guo

School of Mechanical Engineering, Southwest Jiaotong University, Chengdu 610031, China

Dr. Sihan Huang

School of Mechanical Engineering, Beijing Institute of Technology, Beijing 100081, China

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Systems
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
systems@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Ben Clegg
Operations & Service Management Department, Aston Business
School, Birmingham B4 7ET, UK

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