

# Special Issue

## Planning and Scheduling Optimization

### Message from the Guest Editors

This Special Issue of *Applied Sciences* is devoted to recent research, current developments, and applications of complex systems planning and scheduling. It also aims to present the most recent developments of operations research models and other applications of intelligent computing techniques used for planning and scheduling in a variety of manufacturing, engineering, and healthcare systems. The topics of interest include but are not limited to:

- Heuristic and metaheuristic algorithms for planning and scheduling problems in manufacturing, engineering and healthcare systems;
- Exact algorithms (branch and bounds, dynamic programming, etc.);
- Different scheduling applications (timetabling, network routing, crew scheduling, production scheduling, resource-constrained project scheduling, etc.);
- Energy-efficient planning and scheduling problems;
- Intelligent optimization approaches for intelligent manufacturing systems;
- Artificial Intelligence and data analytics (manufacturing, services, healthcare, services and industries of the future, etc.).

---

### Guest Editors

Prof. Farouk Yalaoui  
Dr. Taha Arbaoui  
Dr. Yassine Ouazene

---

### Deadline for manuscript submissions

closed (28 February 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/60318](https://mdpi.com/si/60318)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

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.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )