

Special Issue

Maintenance 4.0 Technologies for Sustainable Manufacturing

Message from the Guest Editor

Manufacturing companies and equipment manufacturers face two major trends affecting their business: digitalization and sustainability. The literature on production refers to digitalization as one of the pillars of the next (fourth) Industrial Revolution. In the Industry 4.0 era, manufacturing systems are able to monitor physical processes and make smart decisions through real-time communication and cooperation with humans, machines, sensors, etc. The second major trend affecting manufacturers is sustainability. The objective of this Special Issue is to present the latest advances and developments of new methods, techniques, systems, and tools dedicated to the application of Maintenance 4.0 technologies for economic, environmental, and social challenges of sustainable manufacturing.

Topics and themes can include but are not limited to:

- Predictive maintenance
- Prescriptive maintenance
- Big Data analytics
- Digital twin
- Internet of things
- Augmented/virtual reality
- 3D printing
- Servitization
- Remaining useful life
- Maturity
- Resource efficiency

Guest Editor

Dr. Jasiulewicz-Kaczmarek Małgorzata

Faculty of Engineering Management, Poznan University of Technology,
60-965 Poznan, Poland

Deadline for manuscript submissions

closed (30 November 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/55469

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

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





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, CAPlus / SciFinder, and other databases.

Journal Rank:

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