



## Maintenance 4.0 Technologies for Sustainable Manufacturing

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)**

### 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





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## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
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## 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.

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*Applied Sciences* Editorial Office  
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