

## Special Issue

# Recent Advances in Smart and Sustainable Manufacturing and Maintenance

### Message from the Guest Editors

With the increase in globalization and contemporary market demands, manufacturing efficiency is being increasingly defined not only as the capacity for low-cost production of products of a specified quality but also as being in line with social and environmental requirements. In this context, manufacturing and maintenance functions play important roles, ensuring asset availability and product quality, simultaneously monitoring natural resources use and people and process safety. Industry 4.0 technologies such as big data, autonomous robots, simulation, system integration, industrial IoT, cybersecurity, cloud, additive manufacturing, and augmented reality have high potential for use in enhancing manufacturing and maintenance management and execution, which represent opportunities for integrating sustainability. The objective of this Special Issue is to present the state of the art of theoretical developments and applications of Industry 4.0 technologies in the areas of manufacturing and maintenance in various industrial sectors.

### Guest Editors

Dr. Jasiulewicz-Kaczmarek Małgorzata

Dr. Przemysław Drożyner

Prof. Dr. Izabela Rojek

### Deadline for manuscript submissions

closed (20 September 2023)



## Applied Sciences

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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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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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