# Special Issue

# Technology Integration for Smart Manufacturing/Re-manufacturing Systems Development

### Message from the Guest Editors

The introduction of modern I5.0 technologies and concepts in factory environments could lead to the smart transformation of production and manufacturing systems, while also favoring a circular economy approach, which is mainly expressed in remanufacturing. Technologies such as Digital Twin (DT), Virtual Reality (VR), Artificial Intelligence (AI), the Internet of Things (IoT) and Cloud Computing could improve shop floor performance and facilitate the development of new, profitable businesses. The integration of these technologies contributes to digital transformation and reveals new perspectives for companies, which have led to the achievement human-oriented factory environments and the growth of overall equipment effectiveness in manufacturing systems. This Special Issue focuses on the scientific and industrial aspects of the integration of new technologies in manufacturing, and their effects on industrial system performance. We welcome original research exploring recent developments in the digital transformation of factories; case studies demonstrating the effectiveness of these transformations; and review articles.

### Guest Editors

Dr. Mario Caterino

Dr. Salvatore Miranda

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Dr. Marcello Fera

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### Deadline for manuscript submissions

closed (31 July 2024)


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# About the Journal

## Message from the Editor-in-Chief

*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.
Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.
There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

## Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso
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