

## Special Issue

# Experimental, AI, and Computational Methods for Modern Manufacturing

### Message from the Guest Editors

This Special Issue targets a wide audience—mechanical and materials scientists, computer engineers, industrial practitioners, and interdisciplinary researchers—and therefore encourages submissions across diverse topics, including additive and subtractive manufacturing, hybrid production, smart factories, process monitoring, sustainability assessment, and predictive maintenance. Both foundational research and application-driven case studies that demonstrate seamless integration from lab-scale experiments to industrial implementation are sought. Review articles, comparative benchmarks, and methodological surveys that critically evaluate the convergence of experimental, AI-driven, and computational approaches are also encouraged. By fostering collaboration among academia and industry, this Special Issue aims to accelerate the development of flexible, efficient, and resilient manufacturing solutions suited to the challenges of Industry 4.0 and beyond.

### Guest Editors

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### Deadline for manuscript submissions

20 January 2026



## Applied Sciences

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## 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.

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### Editor-in-Chief

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