

## Special Issue

# Smart Manufacturing and Industry 4.0, 2nd Edition

### Message from the Guest Editors

Smart manufacturing processes and systems have been receiving a great amount of attention through the latest innovations, ongoing efforts, and best practices in the Industry 4.0 era. The idea of the smart factory and its cyber physical systems, intelligent support systems for manufacturing decision making, intelligent inspection to monitor production health, in situ data collection and fusion of sensor information for manufacturing processes, collaborative robots, self-configuration and self-diagnosis, Internet of Things for manufacturing shop floors, intelligent prescriptive and preventive maintenance, simulation-assisted process control and digital twins, big data analytics for manufacturing systems and processes, on-demand and customized processes utilizing the hybrid model of additive and subtractive manufacturing, autonomy and autonomous vehicles, smart quality assurance and intelligent inspection, data-driven and model-based prognostics, and zero defect production are among the most important topics that need further research attention.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 May 2025)



## Applied Sciences

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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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