

## Special Issue

# Automation and Digitization in Industry: Advances and Applications

### Message from the Guest Editors

The Fourth Industrial Revolution (Industry 4.0) highlights the implementation of automation and digitization across industry domains. The Fifth Industrial Revolution (Industry 5.0) will maximize human and technological strengths, making human-machine collaboration more harmonious. Papers on not only Industry 4.0 but also Industry 5.0 are welcome. We encourage researchers from different fields within the journal's scope to contribute with the latest developments in their research field and/or to invite relevant experts and colleagues to do so. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: Artificial intelligence and machine learning; Internet of Things and Sensors; Edge computing and cloud services; Control and systems engineering; Modeling and simulation; Human-centered automation; Process automation and control; Robotics and machine automation; Digital twins; Cyberphysical systems; Process simulation and automation; Supply chain management; Predictive maintenance. We look forward to receiving your contributions.

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### Guest Editors

Dr. Ivo Pereira

Dr. Ana Madureira

Dr. Benjamim Fonseca

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### Deadline for manuscript submissions

20 April 2025



## 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

Prof. Dr. Giulio Nicola Cerullo  
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