

## Special Issue

# Manufacturing Systems Operations and Engineering

### Message from the Guest Editors

This Special Issue presents current research in different areas connected with operations and engineering of manufacturing systems. In particular, the papers to be published in this SI should cover the following subject areas:

- Optimal and sustainable manufacturing systems design;
- Manufacturing and assembly system balancing;
- Multicriteria optimization in manufacturing systems operations and engineering;
- AI-driven methods of manufacturing system planning, design, and optimization;
- Smart manufacturing systems;
- Digital twins in industrial engineering;
- Automation and robotization of manufacturing systems;
- Simulation in manufacturing systems;
- Continuous improvements in production units;
- Manufacturing technologies;
- Production operations and management;
- Predictive and preventive maintenance;
- Industrial economics;
- Knowledge-based manufacturing;
- Mixed reality in manufacturing systems;
- Flexible and adaptive manufacturing;
- Human-centered manufacturing.

We look forward to receiving your valuable contributions for this Special Issue.

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### Guest Editors

Prof. Dr. Arkadiusz Gola

Prof. Dr. R.M. Chandima Ratnayake

Prof. Dr. Martin Krajcovic

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### Deadline for manuscript submissions

closed (30 June 2024)



## 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  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
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