

## Special Issue

# Advances in Internal Logistics and Material Handling for Smart Manufacturing

### Message from the Guest Editors

The manufacturing industry is undergoing a rapid transformation driven by the advent of Industry 4.0, automation, and smart technologies. In this context, internal logistics and material handling play a crucial role in improving operational efficiency, reducing costs, and ensuring seamless production processes. The increasing complexity of modern production environments requires innovative approaches to managing the flow of materials, optimizing warehouse operations, and integrating flexible logistics systems. We invite high-quality contributions that explore the development and implementation of new technologies, data-driven strategies, and sustainable practices that enhance the efficiency and adaptability of logistics systems within manufacturing plants. We welcome both theoretical and empirical contributions relating, but not limited, to the following topics:

- Automation in Internal Logistics
- Smart Warehousing
- Data-Driven Logistics
- Integration of Cyber-Physical Systems
- Human Interaction in Material Handling
- Sustainability in Intra-factory Logistics
- Digital Twins in Logistics
- Lean and Agile Logistics Approaches
- Supply Chain Resilience

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### Guest Editors

Prof. Dr. Maurizio Faccio

Dr. Yuval Cohen

Dr. Matthias Bues Bues

Dr. Irene Granata

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### Deadline for manuscript submissions

closed (30 June 2025)



## Applied Sciences

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### 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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