

Special Issue

Lean Manufacturing Towards Industry 5.0

Message from the Guest Editors

Lean Production has long been a foundation of efficient production, focusing on eliminating waste, optimizing processes, and delivering value to the customer. As we transition towards Industry 5.0, this lean approach is evolving to integrate advanced technologies with a human-centric focus. Industry 5.0 builds on the automation and connectivity of Industry 4.0, emphasizing collaboration between humans and machines to create more personalized and sustainable manufacturing systems. In this new era, lean principles continue to play a vital role, but they are now complemented by artificial intelligence, robotics, and data analytics, which enable even greater efficiency and customization. The shift towards Industry 5.0 encourages manufacturers to go beyond just reducing waste and improving efficiency; it also demands attention to worker well-being, creativity, and sustainability. Industry 5.0 represents a harmonious blend of technology and human ingenuity, with lean manufacturing as the foundation for this next-generation industrial revolution.

Guest Editors

Dr. Catherine Maware

Dr. David Parsley

Prof. Dr. Ilesanmi Afolabi Daniyan

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Systems
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
systems@mdpi.com

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Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

Editor-in-Chief

Prof. Dr. Ben Clegg
Operations & Service Management Department, Aston Business
School, Aston University, Birmingham B4 7ET, UK

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