

Special Issue

Digital Production and Sustainable Smart Manufacturing

Message from the Guest Editors

The rapid intelligent development of the manufacturing industry has ushered in a transformation centered on sustainability. The Industrial Internet of Things (IIoT), digital twin (DT), big data and other new-generation information technologies are opening up new possibilities for cleaner production and low-carbon manufacturing. How to use the aforementioned intelligent technologies to achieve self-perception, self-analysis, self-decision-making, and self-execution throughout the manufacturing process is an important issue that urgently needs to be addressed in the current field of sustainable manufacturing. IIoT-based real-time perception of the manufacturing process, big data-driven manufacturing system operation analysis and intelligent decision-making, DT-enabled visual monitoring and dynamic optimization of manufacturing processes, interpretability of AI models in sustainable smart manufacturing systems, and knowledge-driven sustainable manufacturing process planning, etc., are all key components of the process of building a sustainable intelligent manufacturing system.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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