

Special Issue

Simulation and Artificial Intelligence for Sustainable Industrial and Service Systems

Message from the Guest Editor

The model-based paradigm is recognized as a powerful approach to sustainable systems engineering in many disciplines, and modeling and simulation (M&S) provides a core mechanism to such an approach. From another perspective, data-driven approaches are gaining tremendous interest in AI-based decision-making at all stages of the sustainable systems life cycle. Ideally, both should go hand in hand—specifically in the context of Industry 5.0 sustainability, where sustainable modern systems are not only studied from a technological perspective, but also considering human-centric aspects. M&S and AI can be endogenously integrated, where AI is embedded within M&S (e.g., simulation agents are empowered with learning capabilities) or M&S is embedded within AI (e.g., learning algorithms are trained with simulation data instead of real-world data), or in an exogenous integration (where AI and M&S are coupled as interacting black boxes). From that perspective, computational, physical, and cognitive dimensions can be involved.

Guest Editor

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Deadline for manuscript submissions

closed (3 May 2024)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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Editor-in-Chief

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