

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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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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