



SMART AND SUSTAINABLE MANUFACTURING SYSTEMS

Special Issue on Intelligent Automation and Data-Driven Manufacturing for Sustainable and Resilient Industrial Transformation

Abstracts are invited for papers to be featured in the ASTM International journal *Smart and Sustainable Manufacturing Systems (SSMS)*, edited by **Dr. Sudarsan Rachuri**, Advanced Manufacturing Office, Office of Energy Efficiency and Renewable Energy, Department of Energy, Washington, DC, USA; and **Dr. Yinlun Huang**, Department of Chemical Engineering and Materials Science, Wayne State University, Detroit, MI, USA.

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Suggested topics for papers include but are not limited to:

- Human-Centric AI and Intelligent Automation for Sustainable Production Systems.
- Intelligent Automation for Green, Resilient, and Inclusive Industrial Transformation.
- Intelligent automation for resilient supply chains and adaptive manufacturing systems.
- Data-Driven Manufacturing for Environmental and Economic Sustainability.
- Supply Chain Resilience through Smart Manufacturing.
- Circular Manufacturing and Closed-Loop Production Systems.
- Digital Twins for Sustainable Manufacturing Systems.
- Smart Supply Chains for Sustainable Manufacturing.
- Additive Manufacturing for Sustainable Industrial Systems.
- Energy-Efficient and Low-Carbon Manufacturing Systems.
- Review papers in the above areas are welcome.

SUBMISSION OF ABSTRACTS

A 250-word preliminary abstract with a title and the names and affiliations of all authors should be submitted to ASTM by **March 15, 2026**, via email to Alyssa Conaway at aconaway@astm.org. The abstract should include a clear definition of the objectives and approach of the work to be discussed, pointing out the novelty of the research and provide summary details of the results obtained. Paper should not be of a commercial nature nor can it have been previously published. However, reviews of previously published technology will also be considered and content should be clearly designated in the abstract. Include a title and the names and affiliations of all authors on the abstract submission. Institutional email addresses are preferred; authors who do not use institutional emails will be asked to complete an author verification step.

PUBLICATION

Upon the receipt of the abstract, based on its suitability to the special issue, ASTM Editorial Office will invite authors to submit papers no later than **May 1, 2026**. All submissions will be uploaded to the special issue paper submission site (link to be sent via email). All submissions will be peer reviewed according to the normal procedures of this journal. For each accepted manuscript, the corresponding author will receive a copy in portable document format (PDF). All published authors will have the opportunity to purchase reprints of their papers at a nominal cost.

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