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IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING

IEEE

Special Issue on Automation Science and Engineering for Green Manufacturing and Logistics Systems

The theme of this special issue will be *Automation Science and Engineering for Green Manufacturing and Logistics Systems*. In order to respond to climate change, carbon peak and carbon neutral become the strategic goals worldwide. Green manufacturing systems are of significant importance to the worldwide economy, supply chain, and societal benefits. The goal of this special issue is to bring together researchers and practitioners into a forum, to show the state-of-the-art research and applications in these directions by presenting efficient scientific and engineering solutions, addressing the needs and challenges for integration of new automation technologies, and providing visions for future research and development.

The central theme of the proposed special issue is on Automation Science and Engineering for Green Manufacturing and Logistics Systems, where analysis, design, and optimization are the key areas. The goals of the special issue are (1) to present the state-of-the-art research in science, engineering and methodologies for automation in green manufacturing and logistics systems, and (2) to provide a forum for experts to disseminate their recent advances and views on future perspectives in the field. Topics to be covered include, but are not limited to:

- Smart planning and scheduling of energy efficient and environment friendly manufacturing and logistics systems
- Design and optimization foundation for green manufacturing systems
- Carbon evaluation framework for manufacturing and logistics systems
- Life cycle analysis-based manufacturing and logistics system design and optimization
- Theory and technology for intelligent planning of zero-emission factories and supply chains
- Energy management in manufacturing executive systems
- Cost-effective analysis for green manufacturing and logistics
- Planning and control of production of renewable energy products (such as batteries, solar panels, wind turbines, fuel cells)

Important Dates

- **Manuscript submission: January 31, 2023**
- Completion of 1st round review: May 31, 2023
- Completion of 2nd round review: September 30, 2023
- Final manuscript submission: November 30, 2023
- Tentative publication date: January 2024

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Paper Submission

All papers are to be submitted through the IEEE's **Manuscript Central** for Transactions on Automation Science and Engineering <http://mc.manuscriptcentral.com/t-ase>. Please select "Special Issue" under Manuscript Category of your submission. All manuscripts must be prepared according to the IEEE Transactions on Automation Science and Engineering publication guideline <http://www.ieee-ras.org/publications/t-ase>. Please address inquiries to fengju@asu.edu.