



Call for Papers

Special Issue on: Sustainable Manufacturing

Sustainable manufacturing requires simultaneous consideration of economic, environmental, and social aspects of the production and delivery of goods. It fundamentally relies on descriptive metrics, advanced decision making, and standard policies and practices for implementation and evaluation. While many view manufacturing as polluting and dangerous, it is a vital source of innovation to meet society's future needs by undertaking strategic activities focused on process- and system-level sustainability.

With this special issue of the Journal of Manufacturing Science and Engineering (JMSE) our objective is to collect papers that explore recent research into the concepts, methods, tools, and applications for sustainable manufacturing. The issue will focus on recent advances related to planning, development, analysis, and improvement of manufacturing processes, as well as challenges in facility operations, production planning and scheduling, and supply-chain design.

Emerging issues in service-oriented architecture, cloud platforms, collaborative web services, and industrial applications and implementations, as well as state-of-the-art literature survey are encouraged. Topics of interest include, but are not limited to:

- Sustainable manufacturing metrics and indicators
- Manufacturing process and system-level modeling and simulation
- Advanced decision-making approaches
- Human and social impact evaluation
- Environmentally responsible design for manufacturing
- Product-service systems
- Resource productivity
- Process and equipment development for environmental impact reduction
- Process hybridization
- Manufacturing scheduling and planning for energy and waste management
- Value recovery and remanufacturing
- Renewable energy manufacturing
- Sustainable energy systems
- Real-time energy management systems
- Education and training

Manuscripts are due **December 15, 2015** and publication of the special issue is scheduled for **October 2016**.

Submission Guidelines:

Papers should be submitted electronically to the Journal at <http://journaltool.asme.org>. If you already have an account, login as an author and select Submit Paper at the bottom of the page. If you do not have an account, select Submissions and follow the steps. In either case, at the Paper Submittal page, select the Journal of Manufacturing Science and Engineering and then select the special issue *Sustainable Manufacturing*.

Guest Editors:

Prof. David A. Dornfeld	University of California, Berkeley, USA	dornfeld@berkeley.edu
Prof. Karl R. Haapala	Oregon State University, USA	karl.haapala@oregonstate.edu
Dr. Moneer M. Helu	National Institute of Standards and Technology, USA	moneer.helu@nist.gov
Dr. Jorge Arinez	General Motors Research and Development, USA	jorge.arinez@gm.com