

CALL FOR PAPERS

FLEXIBLE SERVICES AND MANUFACTURING

FORMERLY: INTERNATIONAL JOURNAL OF FLEXIBLE MANUFACTURING SYSTEMS

Special Issue on *Environmental Sustainability in Supply Chains*

Submission Deadline: October 31, 2011

In almost all industries companies are confronted with the sustainability challenge induced by climate change, end of fossil fuel and scarcity of natural resources, just to name a few. In general, sustainability management – the so-called triple bottom line - seeks to balance the economic, social and environmental performance (e.g. CO₂, waste, or resource consumption). Traditionally, the development of supply chains is driven by measures like costs and customer service. More recently, in view of the sustainability challenge environmental issues are increasingly taken into consideration, for instance, by adding environmental constraints to supply chain models or by considering carbon taxes and emission trading schemes or by including the effect of green house gas emissions in the choice of the transportation mode. This naturally leads to multi-objective considerations in order to analyze the trade-off between economic and environmental performance measures.

The primary objective of this special issue of the *Flexible Services and Manufacturing (FSM) Journal* is to reflect the recent developments in sustainability management in supply chains and related transport systems and to examine research issues concerned with quantitative and other modeling techniques to improve the environmental performance of supply chains in industry. We seek papers that present new research contributions in this field, preferably illustrated by real world examples. Papers for the Special Issue must make a substantial new contribution, and authors must explicitly show the scientific advances compared to the previously published research literature.

Topics could include (but are not limited to) areas such as the following:

- Impact of environmental regulations on supply chain structures
- Sustainability assessment of production and transportation systems
- Measurement and forecasting of environmental parameters, e.g. carbon footprint
- Supply chain design and planning under environmental aspects
- Environmental life cycle assessment of products
- Environmental performance of transport systems
- Effect of carbon emissions on transport in global supply chains
- Transport mode selection under environmental criteria
- Freight consolidation and pooling of transport systems in supply chains
- Energy-saving technologies
- Energy and resources management
- Reverse logistics: reuse, remanufacturing, recycling
- Implications for energy and environmental policy
- Applications and industrial case studies

Submission Guideline

Papers must clearly address research issues of Environmental Sustainability in Supply Chains. Please submit your paper online via

<http://www.editorialmanager.com/flex/>

and use "Sustainability" as article type. You may also send your paper in pdf format by e-mail to one of the special issue editors. The target print publication date is Summer 2012. Accepted papers appear on Springer's webpage prior to print publication.

The submitted papers must not have been previously published or be currently under consideration for publication elsewhere. All papers will be reviewed according to the standards of the FSM journal. We will adopt a rapid and fair review process in order to meet the target publication date. Please feel free to contact the editors with any questions.

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