Journal of Engineering

Hindawi

Special Issue on

Theories and Applications of Intelligent Computing Methods to Sustainable Manufacturing and Service Systems

CALL FOR PAPERS

Nowadays, plenty of business sectors are facing the challenges of international competitors, Industry 4.0, Advanced Manufacturing Partnership (AMP, proposed by the US), and intelligent factories. Meanwhile, the trend of industrial development is being adjusted to gradually transform the businesses from the information and hi-tech industry dedicated to quality enhancement and performance into the valued-added manufacturing service industry which emphasizes "innovative and added value" as well as "data driven." Concerning the development of intelligent manufacturing system in the future, business sectors employ methods and techniques, such as prediction, measurement, assessment, analysis, decision making, design, and control in the manufacturing process, to develop the workflow which can save resources and energy and is of economic efficiency. At the same time, the sustainable manufacturing environment can reduce the negative impact on the environment, in order to create products or services which can meet the market requirements to fulfill the target of enterprise operation.

The highlights of this journal are making theoretical and methodological advances in soft computing (including fuzzy logic, swarm intelligence, genetic programming, neural networks, and chaos theory) as well as cross-disciplinary solutions, to increase the benefits during the manufacturing process, environmental and social sustainability, sustainability in manufacturing planning, sustainability in logistics and supply chain management, and sustainability in manufacturing process and service.

In view of the importance of theories and applications of intelligent computing methods to sustainable manufacturing and service systems, this journal is dedicated to a special issue on this topic. The aim of this special issue is to stimulate discussions and encourage new explorations on this important topic. Academics and practitioners alike are welcome to contribute. We hope to publish refreshing research articles addressing all aspects of sustainable manufacturing and service systems.

Potential topics include but are not limited to the following:

- Fuzzy control system
- Neural networks problem in decision making
- Fuzzy multiple attribute decision making methods and applications
- Soft computing models and various applications
- Statistical process control
- Design for Six Sigma
- Performance evaluation
- Sustainability in manufacturing process
- Sustainability in product design and service development
- Sustainability in operations management of manufacturing
- Sustainability in logistics and supply chain management
- Lean manufacturing and logistics
- Decision support for sustainable manufacturing
- Sustainability in Industry 4.0

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Manuscript Due
Friday, 27 January 2017

First Round of Reviews
Friday, 21 April 2017

Publication Date
Friday, 16 June 2017