Computers & Industrial Engineering

--- Call for Papers ---
Special Issue on
IE & Manufacturing Systems

Aim of Special Issue

The 40th International Conference on Computers and Industrial Engineering (CIE40) was organized to disseminate recent theoretical and methodological developments, significant technical applications, case studies and survey results in the area of Computers, Industrial Engineering, Management and other related areas. The Sponsor of this series of International Conferences is *Computers & Industrial Engineering*: An International Journal. The 40th ICC&IE was hosted and organized by Kobe Gakuin University in Awaji Island, Japan, July 25-28, 2010. The theme of the CIE40 was *Soft Computing Techniques for Advanced Manufacturing and Service Systems.*

Manufacturing systems are undergoing transformational changes. The introduction of new technologies and the advances in equipment intelligence capability are having profound effects on production and logistics in practice. New solutions for manufacturing systems are evolving to respond to various needs. In particular, production and services are transformed from vertically integrated firms for product-based business into virtual collaborations of horizontal modular partners, while huge amounts of data are increasingly accumulated due to business integration. IE and QC technologies are being developed to analyze data and to generate intelligent algorithms that enable automated manufacturing and logistics systems to control work flow, material flow, and information flow of the global supply chain networks. By seamless integration of intelligence and decision technologies, Manufacturing Systems have been completely changing the way we manage our factories, logistics, outsourcing, and supply chain networks. This special issue aims to address the critical issues involved in Manufacturing Systems.

Scope of Special Issue

Original, high quality papers and empirical research papers with scientific novelty are invited to address this subject. The technology herein refers to both hard system and management technologies with a focus on the applications of optimization, solution technique and other techniques to the subject of the special issue. The topics include, but are not restricted to the following aspects of **IE & Intelligent Manufacturing Systems:**

• IE & Manufacturing
• Data Mining for IE & Manufacturing

- Advanced Process Control/Advanced Equipment Control
- Distribution Planning
- Capacity planning and resource allocation
- Equipment real time decision for e-manufacturing
- Logistics Network Design and Logistics Systems
- Inventory & Warehouse Management
- Process Planning & Management
- Group Technology & FMS
- Reverse Logistics
- Supply Chain Design & SCM
- Production planning and production control
- Sustainable Development
- Vehicle Routing & Scheduling
- Quality Management/Engineering, Reliability and Maintenance

Submission Guideline

All authors, whose paper was presented at the CIE40 conference in Awaji Island, Japan, and selected through preliminary review processes by Session Chairs and the Program Committee, can submit the updated manuscripts for possible publication in Special Issues on **IE & Intelligent Manufacturing Systems** of the C&IE Journal. The manuscript should be written in the C&IE manuscript format on the following Website:

http://www.elsevier.com/wps/find/journaldescription.cws_home/399/description

Manuscripts should be submitted via the Elsevier Editorial System as follows:

http://ees.elsevier.com/caie/

Please choose "**IE & Manuf. Syst.**" as Section/Category when assigning the Article Type.
The tentative Schedule of Special Issue is as follows:

Deadline for manuscript submissions: April 30, 2011
Review report: 2011
Revised paper submission deadline: 2011
Notification of final acceptance: 2011
Publication date: 2012 (tentative schedule)

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