



International Journal of Production Research

CALL FOR PAPERS

International Journal of Production Research (IJPR) welcomes contributions for a Special Issue on “*Knowledge and Information Technology Management in the 21st Century Manufacturing*”

Manufacturing has undergone numerous changes in the past decades in terms of implementing new operations strategies, techniques and technologies. Manufacturing has changed from labor intensive to capital intensive environment. Since the market for manufacturing goods has become global, companies have to compete based on mass customization rather than mass production as they did traditionally. This necessitates the manufacturing companies to compete based on multiple competitive performance objectives such as the price, quality, flexibility, responsiveness and dependability. In recent manufacturing companies have implemented various technologies/systems, which include e-Commerce (B2C, B2B and B2A), CAD/CAM, MRP, EDI, RFID, and ERP in order to improve the information flow and in turn the material flow. Virtual enterprise has become a reality with the emergence of supply chain concepts and information technology/systems for integrating partnering firms and customer-suppliers activities. All these aim to improve organizational productivity and competitiveness by being agile to meet the changing market requirements. In the information-intensive manufacturing, knowledge management is to constantly update the knowledge required for organizations to effectively operate in a dynamic global manufacturing environment with the help of suitable information technology/systems. The main objective of this special issue is to assist researchers and practitioners to understand, appreciate and implement required knowledge and information technology management (KITM) strategies, techniques and tools to achieve an integrated supply chain in manufacturing.

The special issue will cover analytical and simulation models, conceptual and empirical frameworks for the design and implementation of KITM. The objective of this special issue is to publish original works that demonstrate the application of operations research models and interesting empirical results arising from the research on KITM in manufacturing. Contributed papers may deal with but are not limited to:

- Design of KITM system for manufacturing
- Knowledge management process and activities in manufacturing
- Implementation of KITM in manufacturing
- Education and training in advanced manufacturing
- KITM in product design and procurement
- Role of knowledge and information technology in supplier selection or partnership formation
- KITM in manufacturing planning and control
- IT/IS for knowledge management in manufacturing
- KITM in quality manufacturing
- KITM for manufacturing supply chains
- Performance measurement of KITM in manufacturing
- KITM and virtual enterprise
- Knowledge sharing and knowledge transfer in advanced manufacturing
- Human, organizational and technological factors of KITM
- Effectiveness evaluation of KITM system in manufacturing

Submission Guidelines and Important Dates:

Manuscripts should be between 4000-6000 words in length, with all contributions being subjected to a double blind review process. There should be a separate title page giving the names and addresses of the authors. Manuscripts must be sent electronically to one of the guest editors no later than July 31, 2005, and should follow the guidelines of the *International Journal of Production Research* – <http://www.tandf.co.uk/journals/authors/tpauth.html>

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