Deploying integrated enterprise management and manufacturing systems ensures the delivery of the right data, information, and knowledge to the right user at the point of work in a timely manner. However, manufacturing enterprise integration in practice is currently time-consuming, costly and inconsistently, which results that many integrated systems lack flexibility in adapting to market fluctuations and capability of evolving as technologies advance. Recently, a lot of research advances in manufacturing enterprise computing, integration and management by incorporating the concept of business process management have been made. The results of the advances bring up a new class of mission-critical infrastructures, a new category of manufacturing integration methods and software, and a new group of business platforms for exploiting and managing manufacturing business processes.

This IJMTM special issue aims at bringing together the latest research on such process-based Emerging Sciences and Technologies in Manufacturing Enterprise Computing, Integration and Management. The discovered sciences and technologies of manufacturing enterprise management and computing can thus be effectively disseminated in academia and explained to practicing managers, meeting the challenges in improving business agility.

Subject Coverage

Specific topics of interest include, but are not limited to:

- Manufacturing business process management
- Complexity and flexibility in a large scale manufacturing systems
- Service-oriented integration architecture
- Reconfigurable manufacturing systems and processes
- Manufacturing process planning optimisation
- Flexible and responsive manufacturing and mass customisation
- Manufacturing process automation
- Manufacturing information systems
- Adaptive workflows in manufacturing
- Integrated and collaborative manufacturing
- Process-based Human-Machine Interactions
Notes for Intending Authors

All papers are refereed through a double blind process. A guide for authors, sample copies and other relevant information for submitting papers are available on the Papers Submission section under Author Guidelines.

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere.

Important Dates

Intent with title and abstract: 10 Jan. 2005

Full paper in a word file: 10 April 2005

Notification of acceptance: 10 July 2005

Final paper due: 10 Aug. 2005

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