



Call for Papers
IEEE TRANSACTIONS ON
AUTOMATION SCIENCE AND ENGINEERING



Special Issue on
Multi-Agent Systems for Ubiquitous Enterprises

A ubiquitous enterprise is equipped with distributed and simultaneous information processing capability through ubiquitous agents. These agents are created by the integration of small, inexpensive, robust and networked ubiquitous computing (ubicom) devices with business objects and activities for their control and communication anywhere anytime. Resulting Multi-Agents Systems (MAS) play important roles in distributed enterprise decisions in manufacturing, logistics and supply chain management. Autonomous agents are decentralized with local views on their own state of affairs. They must negotiate with each other to establish a collaborative plan for solving a common problem.

The aim of this special issue is to provide a forum for researchers and practitioners to review the state-of-the-art technologies and to identify critical issues and challenges for future research and development in MAS and Ubiquitous Enterprises. Guest editors are inviting original contributions related, but not limited, to the topics under the following Research and Application categories respectively:

Research on emerging technologies of MAS	Applications for manufacturing, logistics and supply chains
<ul style="list-style-type: none">• Agent-based negotiation, collaboration and conflict resolution• Analytical tools and techniques for MAS• Ubiquitous computing technologies• Wireless sensor networks and Internet of Things• Ubiquitous enterprise decisions and control• Agent-based workflow management• MAS for enterprise integration, coordination and communication• Event-driven/service-oriented MAS architecture	<ul style="list-style-type: none">• Factory modeling, analysis, performance evaluation• Enterprise planning, scheduling, coordination• Equipment productivity improvement• Automated material handling systems• Factory/cell/equipment-level controller design• Manufacturing execution systems• Data mining for yield and production improvement• Collaborative product lifecycle management• Design, development and deployment issues• Case Studies

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Paper Submission

All papers should be submitted through the IEEE's **Manuscript Central** for Transactions on Automation Science and Engineering at <http://mc.manuscriptcentral.com/t-ase>. Please select "Special Issue" under Manuscript Category of your submission and mention this Multi-Agent Systems for Ubiquitous Enterprises issue in your cover letter. All manuscripts must be prepared according to the guidelines given at http://www.ieee-ras.org/tase/for_authors

Important Dates

Expressing interest (title + Abstract):	Contact guest editors ASAP
Submission of full papers:	31 October 2010
Notification of review outcome:	28 February 2011
Submission of revised manuscripts:	31 May 2011
Final submission:	28 July 2011