

Invited Session on “Supply Network Engineering and Control” for IFAC World Congress 2011

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<http://www.ifac2011.org/>
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Track Chairs:

- *Dr. Dmitry Ivanov, Chemnitz University of Technology, GERMANY*
- *Prof. Alexandre Dolgui, Ecole Nationale Supérieure des Mines de Saint-Etienne, FRANCE*

The aim of this Invited Session is to present new approaches and methods for the engineering & control of supply networks. A particular attention will be made to application of different quantitative techniques to designing, planning and execution control of supply networks.

Organizations are undergoing significant transformations to answer challenges of customer-driven markets, globalization, and competition pressure. To ensure a long-term competitiveness and survival, companies implement new supply engineering and control strategies, based on collaboration with business partners, modularization, concentration of core competencies, and an advanced application of information technologies. One of the key issues in up-to-date research in supply chain management is ensuring supply network flexibility and resilience. In these settings, development in supply network engineering and control are timely and crucial. This Session aims to discuss the trends, quantitative methods, and tools in how design and control supply networks to increase organizations' wealth by producing demand-corresponding products in the most cost-effective manner through increasing agility, responsiveness, reaction speed to market changes, and continuous comprehensive adaptation of supply networks.

Track topics:

The engineering & control of supply networks is a wide open area for development and application of *Quantitative Decision Support Methods*. The session chairs invite scientists, engineers and decision makers from government, industry and academia to contribute theoretical and applied research papers in areas including but not limited to the following topics:

Supply Network Design; Supply Chain Operations Management; Supply Chain Adaptation; Inventory Optimization, Lean Manufacturing and Line Balancing, Multi-agent systems & Simulation; Optimal Control Theory, Adaptive Control, Supply Network Stability; RFID and Event Management Systems, Applications and case studies.

Submission

Submitted papers (6 pages in IFAC double column format) will be reviewed by at least two referees. Both academic and industrial oriented communications will be considered. Further submission instructions are available on the IFAC website www.ifac-control.org. All submissions (for contributed papers, invited sessions, panel discussions, pre-congress tutorials and workshops) have to be made via the Conference Manuscript Management System (CMMS). Several international journals are associated with the symposium for publication of special issues.

Important dates:

September 30, 2010	Deadline for the submission
February 15, 2011	Notification of acceptance
March 31, 2011	Deadline for the final submission