

Invited Session on “Supply Network Optimization and Control” for MIM 2013

Invited session identification code **4t219**

MIM 2013: IFAC Conference on Manufacturing Modelling, Management, and Control

June 19-21, St. Petersburg, Russia

<http://mim2013.org/>

<https://ifac.papercept.net/>

Session Chairs:

- Prof. Dr. Dmitry Ivanov, Berlin School of Economics and Law, GERMANY
- Prof. Dr. Bopaya Bidanda, University of Pittsburgh, USA
- Prof. Dr. Richard Hartl, University of Vienna, AUSTRIA
- Prof. Dr. Boris Sokolov, SPIIRAS, RUSSIA

Current research in supply chain management and engineering has been increasingly focused on the issues of dynamics and decision-making under uncertainty. It has been accepted by research community that the effects of various sources of uncertainty should be considered during both supply chain planning and execution control. In addition, the issues of behaviour prediction and adaptation become more and more important. The research focus is now shifting to a paradigm that the performance of supply networks is to interrelate to dynamics, adaptability, stability, resilience, and crisis-resistance.

The aim of this session is to present new approaches and methods for tackling dynamics, control and uncertainty in the problems of supply network (re)synthesis and analysis. A particular attention will be made to application of different quantitative techniques in operations research, control theory and agent-based simulation to designing, planning and execution control of supply networks.

Track topics:

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, Planning and Scheduling; Supply Chain Adaptation, Inventory Control, Optimal Control Theory, Model-Predictive Control, Adaptive Control, Stability Analysis, Agent-based Simulation, Robustness and Resilience; RFID and Event Management Systems, Applications and case studies.

Submission

For author guidelines, please refer to www.ifac-control.org. All papers must be submitted electronically using Symposium Manuscript Management System (CMMS). All papers must be prepared in a two-column format in accordance with the IFAC manuscript style. Please use the official IFAC instructions and template to prepare your contribution as full-length draft paper and submit it on line by October 1, 2012. Submission details are available on the symposium website. All submissions must be written in English. All papers that conform to submission guidelines will be peer-reviewed by IPC members. The corresponding author submits the paper online (pdf format) as a **special session paper**. Submission as an invited paper requires the **invited session code (4t219)**. Several international journals are associated with the symposium for publication of special issues.

Important dates:

October 1, 2012	Deadline for the submission
February 1, 2012	Notification of acceptance/rejection
April 15, 2012	Deadline for the final submission