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:
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<td>October 1, 2012</td>
<td>Deadline for the submission</td>
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<td>February 1, 2012</td>
<td>Notification of acceptance/rejection</td>
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<td>April 15, 2012</td>
<td>Deadline for the final submission</td>
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Proposal submitted to 2013 IFAC Conference on Manufacturing Modelling,
Management, and Control. Received July 13, 2012.