

Open Invited Track on “Supply Network Dynamics and Control” for IFAC MIM 2019

Invited track identification code **n9u32**
IFAC MIM 2019, August 28-30, 2019, Berlin, Germany

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

Track Chairs:

- Prof. Dr. Dmitry Ivanov, Berlin School of Economics and Law, GERMANY
- Prof. Dr. Alexandre Dolgui, IMT Atlantique, FRANCE
- Prof. Dr. Suresh P. Sethi, The University of Texas at Dallas, USA
- Prof. Dr. Stephen M. Disney, Cardiff University, UK

Current research in supply chain management and engineering has been increasingly focused on the issues of dynamics and control 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 design, 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 interrelated to their dynamics, adaptability, stability, and resilience.

This Open Invited Track aims to summarize recent developments in the field of supply chain dynamics and control from a multi-disciplinary operational perspective that includes different quantitative methods and information technology. The aim of this session is to attract high-quality papers detailing the most recent developments in the field of tackling uncertainties, dynamics, and disruptions in the supply chain. We welcome quantitative analysis contributions from different disciplines of operational research, control theory, system dynamics, and artificial intelligence that provide new insights into the theory and practice of supply chain dynamics, control and disruption management.

Track topics:

Following the successful tradition of INCOM 2009, 2012, 2015, MIM 2013, MIM 2016, as well as IFAC WC 2017 the track 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 chain design with resilience and business continuity considerations, Trade-off “resilience vs. efficiency” in supply chain optimization, Ripple effect and bullwhip in the supply chain, Supply chain robustness and stability analysis, Planning supply chain performance under uncertainty, Creating flexibility and adaptability in the supply chain, Supply chain visibility and monitoring process execution in the supply chain, Quantitative analysis techniques for supply chain control, Differential Games, Production-Inventory Control, Optimal Control Theory, Model-Predictive Control, Adaptive Control, Stability Analysis, Agent-based Simulation, Robustness and Resilience; RFID and Event Management Systems.

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 31, 2018. 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 **an open invited track paper**. Submission as an invited paper requires the **open invited track code n9u32**. Several international journals are associated with the MIM 2019 for publication of special issues.

Important dates:

October 31, 2018	Deadline for the submission
February 20, 2019	Notification of acceptance/rejection
March 15, 2019	Deadline for the final submission