Invited session: Supply chain resilience and viability

Invited session chairs
Prof. Calzavara Martina University of Padua, Italy martina.calzavara@unipd.it
Prof. Battini Daria University of Padua, Italy daria.battini@unipd.it
Prof. Dolgui Alexandre IMT Atlantique, France alexandre.dolgui@imt-atlantique.fr
Prof. Ivanov Dmitry Berlin School of Economics and Law, Germany dmitry.ivanov@hwr-berlin.de

Abstract
Enterprises worldwide are facing significant challenges from growing competition and the destabilizing effects of climate, diseases, and other external perils. Supply chain management (SCM) has been recognized as a critical capability to navigate such risks successfully with the aim of designing resilient and reliable supply chains (SCs) marked by a high capability of withstanding and recovering rapidly from disruptive events. In last decades, researchers have addressed various facets of supply chain risk management like risk identification, assessment, mitigation, and monitoring. However, the example of COVID-19 outbreak demonstrated the necessity to extend the angles of SC resilience and risk management towards new paradigms, such as SC viability, the system ability to meet the demands of surviving in a changing environment.

This Invited Session aims to investigate the development of innovative approaches in the field of supply chain risk management from a multi-disciplinary operational perspective. The will is to attract high-quality papers detailing the most recent developments in the field of tackling uncertainties, building resilience, and developing adaptable systems in SCs.

Topics
The chairs invite scientists, engineers and decision makers from academia, industry and governments to contribute with theoretical and applied research papers. These could be related (but are not limited) to the following topics:

- Supply chain design with resilience and business continuity considerations
- Trade-off “resilience vs. efficiency” in redundancy/robustness planning
- Creating flexibility and adaptability in the supply chain
- Supply chain viability and survivability
- Role of Operational Research in reacting to disruptive events for improving supply chain resilience
- Development of KPIs for future supply value chain designs (e.g. resilience, responsiveness, reconfigurability)
- Quantitative analysis techniques for supply chain control
- Analytics, optimization and simulation, game theory, empirical research, control theory for supply chain resilience and viability.

INVITATION CODE: TBD

Draft papers reporting original research (limited to 6 pages in IFAC format) are welcome.

When you submit your paper to the IFAC system, you will be required the invitation code in order to associate your paper to the invited track: https://ifac.papercept.net

IMPORTANT DATES:
Draft papers submission deadline: 31.01.2024
Reviewing papers: 15.03.2024
Final papers submission deadline: 15.04.2024
Early registration deadline: 30.04.2024

Conference website: https://www.incom2024.org

Accepted papers will be published open access in Elsevier’s IFAC-PapersOnLine. Post-conference special issues for extended versions of accepted papers are planned in high-ranked journals.

Proposal 16 submitted to 18th IFAC Symposium on Information Control Problems in Manufacturing. Received August 29, 2023.