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11th IFAC Conference on Manufacturing Modelling, Management and Control



• Trondheim, Norway, 30 June - 3 July 2025 •

Invited session: Supply chain resilience and viability

Invited session chairs

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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: **30.11.2024**

Final papers submission deadline: **28.02.2025**

Early registration deadline: **28.02.2025**

Conference website: <https://conferences.ifac-control.org/mim2025/>

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.