TRACK: Resilient Supply Chain

International Conference on Resilient Systems

ICRS 2026 Delft, the Netherlands, 23-25 March, 2026

INTRODUCTION TO THE TRACK

Since the post-WWII era, globalization has driven businesses to offshore production, creating complex and interconnected global supply chains. While these networks offer efficiency and profitability, they have also become increasingly vulnerable to disruptions—unexpected events that interrupt the flow of materials, information, and finances. Today, rising threats from geopolitical instability, climate change, cyberattacks, and pandemics highlight the urgent need to rethink supply chain design.

The concept of supply chain resilience, introduced in the early 2000s, focuses on the ability to adapt, recover, and maintain operations during disruptions. The COVID-19 pandemic, which caused a 6.1% drop in EU GDP and affected 94% of Fortune 1000 companies, revealed the fragility of current supply chains. As such, resilience is no longer optional—it is a strategic necessity for both short-term survival and long-term competitiveness.

In line with the conference theme of resilient systems, this track explores innovative approaches to building resilient supply chains. Topics include risk management, digital transformation, sustainability, and emerging trends. The track aims to foster collaboration among researchers, industry professionals, and policymakers, highlighting resilience as a key driver of economic stability and adaptive capacity in an increasingly uncertain world.

TRACK TOPICS

The track welcomes presentations on various aspects of supply chain resilience, including but not limited to the following topics:

- Resilient Supply Chains and Supply Chain Capabilities: This topic explores how capabilities like flexibility, visibility, and collaboration support supply chain resilience.
- Resilient Supply Chains and Risk Management: Focuses on proactive strategies to identify, assess, and mitigate supply chain risks.
- Resilient Supply Chains and Digital Transformation: Highlights how technologies like AI, IoT, Blockchain, and digital twins boost resilience.
- Resilient Supply Chains and Sustainability: Examines how sustainable practices, such as circular and green supply chains, build resilience while reducing environmental and social impact.

- Emerging Trends for Resilient Supply Chains: This topic will delve into emerging trends like reshoring, nearshoring, and the balance between globalization and regionalization.
- Case Studies in Resilient Supply Chains: This topic will showcase real-world case studies of organizations that have successfully navigated disruptions.

TYPE OF CONTRIBUTIONS:

Call for **Extended Abstracts** (1.000 words) - see website for the template. Including the possibility of submitting a **Case Study** - in this same template.

TRACK CHAIR AND CO-CHAIR

Track Chair: Dr.ir. Taher Ahmadi is an Associate Professor of Supply Chain Management at Nyenrode Business University, Netherlands. His research centers on supply chain resilience and risk management, using both empirical and analytical methods. His work has appeared in top journals such as *European Journal of Operational Research*, *Naval Research Logistics*, *IISE Transactions*, *OR Spectrum*, *Journal of Business Research*, and *Supply Chain Management: An International Journal*. Below are his recent publications related to this track topic:

- Ahmadi, T., Hesaraki, F.A., & Morsch, J.P.M. (2025). Exploring IT-driven supply chain capabilities and resilience: the roles of supply chain risk management and complexity. *Supply Chain Management: An International Journal, 30*(1),50-66. https://doi.org/10.1108/SCM-11-2023-0561 2.

- Ahmadi, T., Hesaraki, F.A., Mahmoodi, A., & Marandi, A. (2025). Managing customer waiting times in an inventory system with commitment lead time using mean-CVaR measure. *Annals of Operations Research*, *344*(1), 1-45. https://doi.org:10.1007/s10479-024-06221-z 3.

Track Co-Chair: Dr. Ahmadreza Marandi is a tenured Assistant Professor at Eindhoven University of Technology, specializing in supply chain resilience and disruption management. His work focuses on designing resilient supply chains and data-driven recovery strategies. His research has been published in top journals such as *Mathematical Programming*, *INFORMS Journal on Computing*, *Omega*, *Sustainable Production and Consumption*, and *Journal of Artificial Societies and Social Simulation*.

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