

Sustainable and Resilient Supply Chains

In response to these social, environmental, and economic pressures, sustainability has become a central focus in SC management [1]. From a social perspective, sustainability emphasizes ethical and human-centered practices in managing SCs. Environmental sustainability aims to minimize the ecological footprint through practices such as recycling, energy efficiency, and adopting circular economy principles. Economic sustainability ensures that SCs balance profitability with responsible resource use, promoting long-term operational efficiency without compromising social and environmental goals.

While sustainability addresses long-term environmental, social, and economic impacts, resiliency in SCs is also critical in the face of disruptions [2]. The COVID-19 pandemic underscored the importance of resilient SCs, as global networks were severely disrupted, leading to shortages and delays. Resilient SCs can quickly adapt to shocks such as natural disasters, economic crises, or supply interruptions by employing strategies like diversification, real-time data analysis, and flexible logistics [3].

In this context, research into sustainable and resilient SCs is essential for navigating current global challenges. This track invites contributions that explore innovative SC solutions which balance social, environmental, and economic responsibility with resilience, ensuring that SCs are prepared to meet both long-term sustainability goals and immediate crisis response needs. Both practical case studies and theoretical frameworks are welcome, particularly those that demonstrate innovation in supply chain resilience and sustainability practices.

Keywords: Sustainable supply chain, resilient supply chain, supply chain

Topics may include, but are not limited to:

- Circular supply chain models.
- Risk management and resilience strategies for supply chains.
- Integration of digital tools (AI, IoT) for sustainability and resilience.
- Real-time supply chain monitoring and adaptive decision-making.
- Collaborative supply chain management for sustainability and resilience.
- Sustainable and responsible sourcing, multi-tier sourcing, conflict-mineral sourcing, logistics, and decarbonization strategies.
- Human-centric supply chains.
- Industry 5.0 principles for sustainable and resilient supply chains.

Organizers:

- Banu Yetkin Ekren, Cranfield University, United Kingdom banu.yetkinekren@cranfield.ac.uk
- Jelmer Pier van der Gaast, Fudan University, P.R. China, jpgaast@fudan.edu.cn
- Debjit Roy, Indian Institute of Management Ahmedabad, India, debjit@iima.ac.in
- Alexandre Dolgui, IMT Atlantique, France, alexandre.dolgui@imt-atlantique.fr

References

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