



PRO-VE 2026 Special Session

Collaborative Governance of Resilient Ecosystems

Scope

The increasing frequency and severity of disruptions – ranging from pandemics and geopolitical tensions to climate-related events – have reinforced the need for more resilient, adaptive, and data-driven supply chains. In this context, where supply chains increasingly operate as **collaborative networks**¹, resilience depends not only on firm-level capabilities, but also on the collective ability of network actors to sense disruptions, respond rapidly, recover operations, and adapt collaboratively. Key **governance principles of resilient ecosystems** include ensuring diversity and redundancy, managing connections and feedback, expanding participation, and supporting multi-level governance structures.

Digital transformation is intensifying this networked logic. Rather than relying on isolated technologies, it involves the development of interconnected digital ecosystems that integrate multiple technologies, platforms, and stakeholders. Through the combined use of AI, IoT, data analytics, blockchain, cloud computing, digital twins, and advanced manufacturing, collaborative supply chain networks are evolving into data-driven ecosystems characterised by real-time connectivity, distributed intelligence, and enhanced coordination mechanisms. These technologies enable improved visibility, real-time decision-making, and seamless information sharing across the supply chain.

From this perspective, digital ecosystems can be understood as a new generation of digitally enabled collaborative networks, in which resilience emerges from the interaction between technological infrastructures and inter-organisational collaboration. Such ecosystems support key resilience capabilities, including disruption sensing, predictive analytics, scenario simulation, adaptability, recovery, and network reconfiguration, while also enabling new forms of transparency, coordination, and responsiveness.

However, despite their potential, important challenges remain related to ecosystem design, governance, interoperability, data sharing, trust, and value creation across multiple actors. In particular, the interplay between different digital technologies and their combined impact on supply chain resilience remains insufficiently understood. This special session aims to advance the understanding of how digital ecosystems and collaborative networks jointly enable and transform supply chain resilience, with particular attention to ecosystem design, coordination mechanisms, technology integration, and resilience outcomes in interconnected industrial contexts. Contributions are invited from conceptual, empirical, and methodological perspectives, as well as practice-oriented studies addressing real-world implementations.

Session Organizers

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Topics

- Design and evolution of technologies for resilient collaborative networks across multi-tier supply chains.
- Governance models, trust mechanisms, and data-sharing frameworks in resilient collaborative ecosystems.
- Mechanisms enabling real-time visibility and information exchange across interconnected actors in support of resilience.
- Predictive and prescriptive analytics supporting disruption sensing, response, and coordination.
- Digital platforms and infrastructures enabling coordination, orchestration, and collaboration.
- Development of resilience capabilities at the network level.

Submission procedure

Special sessions are included in the main Conference and follow the same reviewing process.

10 Apr 2026 - Abstract submission (optional)

8 May 2026 - Full paper submission

19 June 2026 - Results notification

3 July 2026 - Camera-ready version

26-28 October, 2026 - Conference

Acceptance of papers is based on the **full paper** (up to **16** pages). Each paper will be evaluated by three members of the International Program Committee.

When submitting on the web site, you have to indicate the name of the special session.

Submission procedure via EasyChair available on: <http://www.pro-ve.org>, with copy by email to the chairs of the special session.

¹ where firms, suppliers, logistics providers, customers, and service actors coordinate resources, information, and decisions across organisational boundaries