

Proposal for Invited Session: "Digital Platforms for Supply Chain Resilience"

Overview

Supply chain disruptions have become increasingly common, driven by crises such as the COVID-19 pandemic, Ukraine war, geopolitical conflicts and other natural disasters. These disruptions have underscored the vulnerability of global supply chains and the critical need for resilience. The proposed invited session, "Digital Platforms for Supply Chain Resilience," aims to explore the role of digital platforms in assessing, managing, and enhancing supply chain resilience across different industries, with a particular focus on Small and Medium-sized Enterprises (SMEs).

Digital supply chain platforms, which integrate technologies like cloud computing, AI, IoT, and data analytics, present a robust solution for managing supply chain disruptions. However, significant gaps remain in understanding their adoption and integration, especially within SMEs. Furthermore, current literature emphasizes the use of digital platforms in consumer-facing applications, leaving B2B applications largely unexplored. This session will bring together academics and practitioners to examine how these platforms can be leveraged to improve resilience and performance in supply chains.

Session Objectives

This session will explore how digital platforms can help supply chains become more resilient by enabling better risk management, collaboration, and adaptability. In particular, it will focus on:

1. **Resilience Assessment:** Leveraging digital platforms for real-time resilience assessment and identification of vulnerabilities in supply chains.
2. **SME Engagement:** Investigating how digital platforms can be tailored to support SMEs in improving their resilience in the face of global disruptions.
3. **Adoption Challenges:** Understanding the key constraints in the adoption of firm-integrated digital supply chain platforms in the B2B context.
4. **Collaborative Ecosystems:** Evaluating the roles and interactions of different stakeholders within the digital platform ecosystems and their impact on performance and resilience.

Key Questions:

1. **What are the key constraints involved in the adoption and implementation of firm-integrated digital platforms for supply chain resilience?**
2. **How can digital platforms be leveraged to assess and enhance supply chain resilience in B2B firms?**
3. **How do the roles and interactions of different stakeholders affect the adoption and performance of digital supply chain platforms?**
4. **What strategies and incentives can be developed to encourage SMEs to adopt digital platforms towards attaining supply chain resilience?**

References

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