

Supply Chain Forum: an International Journal

Call for Papers / Special Issue

Supply Chain Resilience: Toward Assessment, Quantification and Evaluation Tools

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Submission deadline: **December 1st, 2017**



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In this era of industry turbulence and major disruptions, planning for the future is an increasingly complex task. For firms aiming to maintain value creating supply chains under uncertainty, it is crucial to clearly envision the future business environment and be able to invest in resilience when needed. Commonly, resilience is defined as the ability of a system to bounce back to former capabilities in the face of disruptions – this means that the system must survive, adapt, and develop despite disruptions. In the context of supply chains, analyzing trends, vulnerabilities, and risks as well as exploiting data using analytics are important steps, but what is more necessary than ever is being able to measure the costs and benefits of resilience, and assess the effectiveness of various options for creating resilience – effectively, quantifying supply chain resilience. Several supply chain strategies could provide the appropriate resilience to manage future uncertainty, for instance by introducing redundancy, e.g. holding extra inventory, and flexibility, e.g. adopting concurrent and standardized processes. However, these decisions require that the manager can easily trade-off costs and benefits. Hence, there is a compelling necessity to develop methods and frameworks to quantify the benefits and costs of resilience. These frameworks could help assess the resilience of a company, and provide useful guidelines for strategy development and investment. Hence, the challenge to build a resilient supply chain is now, and involves the development of assessment tools and quantification frameworks of the supply chain capabilities and ability to respond under uncertainty.

Facing these observations, there is a need to conduct more research, to go beyond the scope of risk and vulnerability and bridge the gap between them and different theoretical backgrounds toward the quantification of resilience. We believe that this Special Issue on Supply chain Resilience, oriented toward assessment, quantification and evaluation tools, represents a contribution to the current literature. The recent years testified a significant growth of the research on this topic and noticed a clear motivation and involvement of the community around it. The objective of this Special Issue is to bring together novel researches to share about a broad range of topics related to supply chain design and management, to information and decision-making systems, to innovative practices in logistics, etc. Also it could easily merge academic inputs with business cases around the topic of resilience.

Submissions may address but are not restricted to the following topics:

- Integrating resilience measures with overall supply chain performance metrics
- Incorporating resilience considerations into supply chain strategy
- The effect of supply chain decisions on resilience
- The use of financial instruments to enhance supply chain resilience
- Managing end to end resilience with customers and suppliers with measures
- Integrating resilience strategies into Supply chain models
- Developing and quantifying effects of PPPs (Public-Private Partnerships) to improve supply chain resilience

Submissions will be subject to a double blind peer review process. On line submissions to [Supply Chain Forum: an International Journal](#) are made using ScholarOne Manuscripts, the online submission and peer review system.

Registration and access is available at <http://mc04.manuscriptcentral.com/scfij> Publication schedule

The deadline for submissions is: **December 1, 2017**

Notification of Final Acceptance for Publication: **September 1, 2018**

The special issue is expected to appear in **December 2018**

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