

Decoding and Encoding Resilience in Operations and Supply Chain Management: A Review Based on Engineering and Evolutionary Perspectives

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Abstract

This study utilized a hybrid scholarly network analysis by combining citation-based and text-based approaches to understand the conceptualization, measurement, and antecedents of operational resilience in the supply chain risk management literature. Specifically, we employed a Bibliographic Coupling Analysis in the research cluster formation stage and a Co-words Analysis in the research cluster interpretation and analysis stage. Our analysis reveals three major research clusters of resilience research in the SCRM literature, namely (1) *supply chain network design and optimization*, (2) *organizational capabilities*, and (3) *digital technologies*. We portray the research process in the last two decades in terms of the problems studied, commonly used approaches and theories, and solutions provided in each cluster. We then provide a conceptual framework on the conceptualization and antecedents of resilience based on studies in these clusters and highlight potential areas that need to be studied further. Finally, we leverage the concept of abnormal operating performance to propose a new measurement for resilience. This measurement overcomes the limitation of most current measurements that focus on the resistance or recovery stage - without capturing the growth stage.

Keywords

Supply chain, resilience, literature review, bibliographic coupling analysis, co-words analysis