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Supply chain management 2025: Potentials, challenges and research directions

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After scanning plethora of literature, it is worth mentioning that due to highly complex and dynamic nature of supply chains, designing, modeling, analyzing, optimizing and re-designing supply chain processes and operations using formal and quantitative/qualitative approaches is a challenging task. Many studies in supply chain literature neglects integration/synchronization issues in supply chains because of dramatic increase in modeling complexity required. Therefore, this talk will analyze how diverse hybrid modeling techniques can be applied to address emerging potentials and research challenges in dynamic supply chain configurations. The talk will also address new emerging research methodologies which are geared towards providing and developing effective solutions for performance/risk analysis of integrated supply chain networks. This talk will discuss about the emerging generic modeling and optimizing approaches which integrates various supply chain functions; capture all process-related information including activities, resources and organizational units as well as their interdependencies to support complex dynamic and distributed supply chain processes/operations. Considering the dynamic characteristics of supply chain networks, the discussed research approaches can be utilized as a modeling and optimization tool to study the impact of different supply chain strategies and policies and will help the managers to build trust among supply chain partners. Briefly, this talk addresses the summary of work done in supply chain literature, provides key insights and future research directions while addressing several emerging research issues in complex and dynamic supply chain environments, thus providing strong implications for academia and supply chain practitioners.

Biography

Vipul Jain, graduated as Electrical Engineer, holds Masters in Manufacturing Technology and Doctorate in Supply Chain Management from the Indian Institute of Technology Delhi (IIT Delhi), India. He is presently Assistant Professor in the Department of Industrial Engineering and Engineering Management at University of Sharjah. Prior to this, he worked as Assistant Professor at IIT Delhi and Post-Doc researcher at INRIA (The French National Institute for Research in Computer Science and Control) at Nancy, France. At INRIA, in addition to the fundamental research, he was also involved in the European project I*PROMS (Innovative Production Machines and Systems). His primary research interests are Supply chain Management; Mechanism Design in supply chain settings; Managerial Decision Making. He is the editor-in-chief of International Journal of Intelligent Enterprise and also Editorial Boardmember of many top international journals. He has more than 75 publications in top rated international journals and conferences.

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