

# CALL FOR BOOK CHAPTERS

## The Palgrave Handbook of Supply Chain and Disruptive Technologies

PalgraveMcMillan, UK

### EDITORS

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### Important dates:

Abstract Submission Deadline  
31/03/2022

Notification of Acceptance  
15/04/2022

Full Chapter Submission  
31/07/2022

Review Result Returned  
30/09/2022

Final Chapter Submission  
30/11/2022

Publication Schedule of Handbook  
2023

Digitalisation refers to the use of information to enhance inter and intra-organizational decision making and processes. In this era, disruptive technologies are transforming supply chain landscape where stakeholders are exploring pathways to evolve the innovative process to capture and generate value to achieve radical growth and operational excellence. There is a serious debate on developing digital capabilities to reap the full benefits of those technologies such as blockchain, big data, artificial intelligence, drones, autonomous vehicles and others.

This handbook is expected to make significant contributions to the theory and practice of digitalization of supply chains by improving the understanding of supply chains with applications of disruptive technologies. Chapters will address digital capabilities in the supply chain in a wide range of contexts and perspectives. The handbook will consist of 30 chapters with around 5,000-8,000 words for each.

**Contact Information:** For any additional information, please contact us via [HandbookSCDT@gmail.com](mailto:HandbookSCDT@gmail.com)



### **Information for Authors.**

Researchers and industry practitioners are invited to submit by 31 March 2022, an abstract (not exceeding 1000 words) for consideration for review. The abstract main text should have the following contents: Purpose/aim; Design/methodology; Findings; Novelty in analytics.

Authors of accepted proposals will be notified in 15 April 2022 about the status of their proposals and will be provided chapter formatting guidelines. Authors will be expected to submit the full chapter with 5,000–8,000 words on or before 31 July 2022 and will be notified by 30 September 2022 about the status of their full chapters. Final chapters will be submitted by 30 November 2022.

All chapters suitable for publication in this handbook will be reviewed on double-blind review basis. All chapters should be submitted in English.

### **Submission.**

Chapter abstract must be submitted via EasyChair at: <https://easychair.org/conferences/?conf=scdt2022>

The Palgrave Handbook of Supply Chain and Disruptive Technologies will be published in **Palgrave McMillan**.

### **Topics of Interests.**

The present handbook will answer some of the open questions identified in the supply chain digitalisation as per the theme-technology mapping given below. Overall, the handbook covers six themes with respect to various stages of supply chain:

Theme 1: Supply chain digitalization: key barriers, enablers and capabilities

Theme 2: Technological effort vs value in digital supply chains

Theme 3: Transformational model and process in digital supply chains

Theme 4: Digital design capabilities for various technologies in digital supply chains

Theme 5: Digital manufacturing capabilities for emerging technologies in digital supply chains

Theme 6: Digital delivery and use capabilities for emerging technologies in digital supply chains

### **Qualitative or quantitative research, conceptual, systematic review or case study-based**

**chapters** are encouraged that address the above themes and coverage the disruptive technologies including blockchain, big data analytics, cloud/edge/fog computing, artificial intelligence, machine/deep learning, 3D/4D printing, drones, augmented and virtual reality, cyber physical system, cybersecurity, digital twins, autonomous vehicles, integrated systems, 5G/6G, IoT/ IIoT, RFID/QR code, bluetooth, cognitive computing and so on.

**Possible contents and perspectives for chapter topics.** (but not limited to)

**Theme 1: Supply Chain digitalization key barriers, enablers and capabilities**

- Big Data Analytics barriers, enablers and capabilities for supply chain digitalization
- Artificial Intelligence barriers, enablers and capabilities for supply chain digitalization
- Drones barriers, enablers and capabilities for supply chain digitalization
- Cyber Physical System barriers, enablers and capabilities for supply chain digitalization
- IoT/IIoT/Sensors barriers, enablers and capabilities for supply chain digitalization
- Cognitive Computing barriers, enablers and capabilities for supply chain digitalization

**Theme 2: Technological effort vs value in digital supply chains**

- Effort vs value of Cloud/Edge/Fog Computing efforts in supply chains
- Effort vs value of advanced robotics and AGVs in supply chains
- Effort vs value of integrated systems (M2M) in supply chains
- Effort vs value of QR-Code in supply chains

**Theme 3: Transformational model and process in digital supply chains**

- Transformational machine learning/deep learning model and process in supply chains
- Transformational cybersecurity model and process in supply chains
- Transformational 5G/6G model and process in supply chains
- Transformational Bluetooth/ZigBee/WiFi model and process in supply chains

**Theme 4: Digital design capabilities for various technologies in digital supply chains**

- Knowledge reuse and blockchain in supply chains
- 3D Printing/Additive Manufacturing for new product development in supply chains
- Emerging design practices in augmented reality and virtual reality in supply chains
- User experience and incremental customization of drones in supply chains
- Knowledge reuse and advanced robotics and AGVs for sustainable supply chains

**Theme 5: Digital manufacturing capabilities for emerging technologies in digital supply chains**

- Machine learning/deep learning models for inventory and lot sizing in supply chains
- 3D printing/additive manufacturing's role in build-to-model manufacturing
- Simulation/digital twins and product diversity in supply chains
- QR code and RFID risks in transfer of digital design and manufacturing
- Augmented and virtual reality's role in redistribution and restructuring of regional manufacturing

**Theme 6: Digital delivery and use capabilities for emerging technologies in digital supply chains**

- Artificial intelligence and sharing economy/on-demand economy in supply chains
- Cybersecurity and crowd logistics / synchro-modality servitisation in supply chain
- Autonomous vehicles for horizontal and vertical system integration in supply chains
- Big data analytics and circular economy in supply chains
- Last mile delivery with drones for zero emission logistics in interconnected smart cities in supply chains