

Digital Manufacturing Networks

(Chair: Gary Graham)

Exploring loss hidden in digital scheduling data. A case of chemical production system

Koichi Murata, Takahiro Ishimoto

Digital transformation in the automotive supply chain

Gary Graham, Laird Burns, Patrick Hennelly

A method for facilitating the design of Industry 4.0 collaborations and its application in the aerospace sector

Nikolai Kazantsev, Nikolay Mehandjiev, Pedro Sampaio, Iain Duncan Stalker

Supply chain digital twins: Opportunities and challenges beyond the hype

Jagjit Singh Srail, Ettore Settanni, Naoum Tsolakis, Parminder Aulakh

Sustainability

(Chair: Ekaterina Yatskovskaya)

Consumer driven sustainable supply networks

Ekaterina Yatskovskaya, Jagjit Singh Srail

Soft systems as a helping tool in the assessment of sustainable business practices and risks in a socio-economic-environmental context

Isabel Duarte de Almeida, J. M. Vilas-Boas da Silva

Towards the end of the resounding sound of silence: How state intervention forces multinational companies (MNC) to rethink their operations management (OM); The case of waste in the food plastic packaging industry

Yannick Pottier

Fabricating biomedical implants material: A case study based on process plans and environmental impacts

Gurvinder Singh, Vikrant Bhakar, Harpreet Singh

Value Chains and Business Models

(Chair: Naoum Tsolakis)

Value chain impacts of EU Waste Framework Directive 2018/851 as a result of reporting substances of very high concern from 2021

Sukhraj S. Takhar, Kapila Liyanage

New business models as regulation changes: Case of Finland and Russia

Oskari Lähdeaho, Olli-Pekka Hilmola, Jukka Niiranen

Business model design elements for electric car service based on digital data enabled sharing platform

Lasse Metso, Ari Happonen, Ville Ojanen, Matti Rissanen, Timo Kärri

Design of B2B e-commerce business models: A configuration and design-science perspective

Alexander Kouptsov, Jagjit Singh Srail

Supply Network Design

(Chair: Laird Burns)

Some advanced topics on innovation-focused lean/agile management

Hiroshi Katayama

The impact of the Fourth Industrial Revolution in the ownership, location and internalization advantages of firms: an exploratory study

Evodio Kaltenecker, Lisa Kahle-Piasecki

Foster inclusive entrepreneurship in BOP areas: The role of asset specificity and supply chain interconnection

Jian Du, Jie Lu

Localization or not localization? Evidence from Philips

Yue Jia, Bin Guo

Agri-food Track I

(Chair: Naoum Tsolakis)

Sustainable supply network configurations driven by water scarcity: Example of end-to-end beverage supply chain

Ekaterina Yatskovskaya, Jagjit Singh Srail, Mukesh Kumar

Simulation of future groundwater behaviour in Sirhind Canal Tract of Punjab using MODFLOW

Navdeep Kaur, Samanpreet Kaur

Management interventions to enhance productivity of wheat and water use in changing climate of Indian Punjab

Bharat Bhushan Vashisht

Can Input-Output data inform agri-food supply network reconfiguration? The case of water-intensive crop production in developing economies

Ettore Settanni, Jagjit Singh Srail, Franz Stephan Lutter

Mergers and Acquisitions

(Chair: Pavan Manocha)

Exploring the implications of M&A for global production networks

Oliver Flaeschner, Torbjörn Netland, Kasra Ferdows, Jagjit Singh Srail

Analysing the financial sustainability in mergers and acquisitions for Chinese manufacturing firms

Xiaobo Wu, Ye Hua, Yongjiang Shi

Exploring circular economy supply chain considerations in Mergers & Acquisitions – How green is the deal? A natural-resource-based view of the U.S. shale oil & gas product-supply chain

Pavan Manocha, Jagjit Singh Srail

Exploring visual management and continuous improvement in a manufacturing context: A structured bibliometric analysis

Lucia Olszewski, Arijit Bhattacharya, Tomás Seosamh Harrington

Technology and Innovation

(Chair: Ettore Settanni)

Windows of opportunity: Technology cycles, demand conditions, and strategy

Xiaobo Wu, Yuanyang Teng, Yongjiang Shi, Sasa Ding

Exploring the feasibility of anchoring innovation by enhancing the linkage between manufacturing research networks and supply chains

Michael Ward, Janet Godsell

Developing fava beans as a sustainable source of high-quality protein for food supply chains through optimised genetics, farming and processing

Naoum Tsolakis, Thomas Wood, Isabelle Privat, Bénédicte Terrier, Jean-Michel Roturier, Jagjit Singh Srail, Howard Griffiths

Agri-food Track II

(Chair: Tomás Seosamh Harrington)

Sub surface drip fertigation in summer moong-maize-wheat cropping system: A novel technique for sustainable water use and higher resource use efficiency

Ajmer Singh Brar, Kuljit Kaur

Role of Farmer Producers Organizations (FPOs) in Punjab

Puneet Singh Thind

Digital FPO design: The development of an institutional-socially responsible supply network framework

Tomás Seosamh Harrington, Jagjit Singh Srail

Risk and Complexity

(Chair: Mukesh Kumar)

A new approach to optimising supply-chain performance using 4 fundamental process types

David Anker, Glenn Chambers

Application of the concept of supply chain reliability for an availability assessment of inland waterway systems

Johannes M. Gast, Rebecca Wehrle

Impact of supply chain risk management on organizational performance: Moderating role of supply chain integration

Sabeen Hussain Bhatti, Asif Ali Bhatti