

# Pietro De Giovanni

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PROFESSOR OF PRACTICE

**Operations & Supply Chain Management**

**PIETRO.DEGIOVANNI@SDABOCCONI.IT**

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## Biography

Pietro De Giovanni is a Professor of Practice in Operations and Supply Chain Management at SDA Bocconi School of Management.

Prior to his appointment at SDA Bocconi, he held academic positions at Luiss University (Rome, Italy), ESSEC Business School (Paris-Singapore), Vrije Universiteit (VU) Amsterdam (Amsterdam, the Netherlands), and NOVA School of Business and Economics (Lisbon, Portugal), where he was a Professor of Circular Economy, Sustainable Strategies, Operations, and Supply Chain Management. He has also held various academic positions, including Academic Director of the Master in Technology Project Management at ESSEC Business School with Telecom ParisTech, Scientific Coordinator of the Operations Management/Operations Research cluster at ESSEC, Academic Director of the MSc in Strategic Management at Luiss University, and Director of both the MS in Project Management and the Executive Program Flex Supply Chain at Luiss Business School. Additionally, he served as the Associate Dean for Sustainability at the Luiss-X.ITE Research Center. In SDA Bocconi, Pietro is the Director of the program "Life-cycle Assessment as a Sustainability Tool" and co-director of the Sustainable Operations and Supply Chain Monitor.

Pietro's research and teaching interests encompass supply chain and operations management, as well as sustainable strategies and circular economy. He has published several papers in scientific journals, including Journal of Operations Management, European Journal of Operational Research, Transportation Research, Annals of Operations Research, International Journal of Production Economics, Journal of the OR Society, International Journal of Physical Distribution and Logistics Management, Dynamic Games and Applications, Journal of Environmental Management, and International Journal of Operations and Production Management.

Pietro holds a degree in Business Administration from Università della Calabria (UNICAL), a Master in Supply Chain Integrated Management from Università di Verona, a Master Phil in Business Administration from ESSEC Business School, a Doctorate in Business Administration from Università della Calabria (UNICAL), and a Ph.D. in Decision Management Sciences with a concentration in Operations and Supply Chain Management from ESSEC Business School. Currently, he serves as an Associate Editor of the following academic journals: International Transactions of Operations Research, 4OR Springer, and Annals of Operations Research.

## Teaching domains

Circular Economy

Operations

Sustainable Supply Chain

## ARTICLES IN SCHOLARLY JOURNALS

MALEKI VISHKAEI B., DE GIOVANNI P.

**A smart mobility game with blockchain and hardware oracles**

International Journal of Production Economics, 2025, vol.282, pp.109533

MALEKI VISHKAEI B., DE GIOVANNI P.

**Smart food-sharing platforms for social sustainability: a heuristic algorithm approach**

International Transactions in Operational Research, 2024

VISHKAEI B. M., DE GIOVANNI P.

**L'impatto sulle performance aziendali. Il business sostenibile migliora la resilienza - Sustainability and Business Performance. Building Resilience with GRI Practices**

Economia & Management, 2024, no. 3, pp.16-24

LINDSTRÖM C. W. J., VISHKAEI B. M., DE GIOVANNI P.

**Subscription-based business models in the context of tech firms: theory and applications**

International Journal of Industrial Engineering and Operations Management , 2024, vol.6, no. 3, pp.256-274

DE GIOVANNI P.

**The modern meaning of “quality”: analysis, evolution and strategies**

The TQM Journal, 2024, vol.36, no. 9, pp.309-327

VISHKAEI B. M., DE GIOVANNI P.

**The Impact of Business Continuity on Supply Chain Practices and Resilience Due to COVID-19**

International Journal of Logistics Research and Applications, 2024, vol.8, no. 2, pp.41

VISHKAEI B. M., DE GIOVANNI P.

**Bayesian network methodology and machine learning approach: an application on the impact of digital technologies on logistics service quality**

International Journal of Physical Distribution & Logistics Management, 2024, vol.54, no. 7/8, pp.755-774

DE GIOVANNI P., RAMANI V.

**A Selected Survey of Game Theory Models with Government Schemes to Support Circular Economy Systems**

Sustainability, 2024, vol.16, no. 1, pp.136

URREA N. T., VISHKAEI B. M., DE GIOVANNI P.

**Operational Risk Management in E-Commerce: A Platform Perspective**

IEEE Transactions on Engineering Management, 2024, vol.71, pp.3807-3819

VISHKAEI B. M., DE GIOVANNI P.

**Rescheduling Multiproduct Delivery Planning With Digital Technologies for Smart Mobility and Sustainability Goals**

IEEE Transactions on Engineering Management, 2024, vol.71, pp.7173-7194

DE GIOVANNI P., BELVEDERE V., GRANDO A.

**The Selection of Industry 4.0 Technologies Through Bayesian Networks: An Operational Perspective**

IEEE Transactions on Engineering Management, 2024, vol.71, pp.2921-2936

COZZOLINO A., DE GIOVANNI P.

**Portfolios of sustainable practices for packaging in the circular economy: an analysis of Italian firms**

The International Journal of Logistics Management, 2023, vol.34, no. 7, pp.24-49

VOLPENTESTA T., SPAHIU E., DE GIOVANNI P.

**A survey on incumbent digital transformation: a paradoxical perspective and research agenda**

European Journal of Innovation Management, 2023, vol.26, no. 7, pp.478-501

DE GIOVANNI P., ZACCOUR G.

**A survey of dynamic models of product quality**

European Journal of Operational Research, 2023, vol.307, no. 3, pp.991-1007

DE GIOVANNI P.

**Sustainability of the Metaverse: A Transition to Industry 5.0**

Sustainability, 2023, vol.15, no. 7, pp.6079

BISWAS D., JALALI H., ANSARIPOOR A. H., DE GIOVANNI P.

**Traceability vs. sustainability in supply chains: The implications of blockchain**

European Journal of Operational Research, 2023, vol.305, no. 1, pp.128-147

ROMAGNOLI S., TARABU<sup>1</sup> C., MALEKI VISHKAEI B., DE GIOVANNI P.

**The Impact of Digital Technologies and Sustainable Practices on Circular Supply Chain Management**

International Journal of Logistics Research and Applications, 2023, vol.7, no. 1

SALANDRI L., CASCIO RIZZO G. L., COZZOLINO A., DE GIOVANNI P.

**Green practices and operational performance: The moderating role of agility**

Journal of Cleaner Production, 2022, vol.375, pp.134091

MORGANTI D., DE GIOVANNI P.

**Offshoring motivations driven by sustainability factors**

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SAMMARCO G., RUZZA D., MALEKI VISHKAEI B., DE GIOVANNI P.

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**Technology and service investments in the presence of feature fatigue and word-of-mouth**

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DE GIOVANNI P., ZACCOUR G.

**A selective survey of game-theoretic models of closed-loop supply chains**

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CARDINALI P. G., DE GIOVANNI P.

**Responsible digitalization through digital technologies and green practices**

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NACLERIO A. G., DE GIOVANNI P.

**Blockchain, logistics and omnichannel for last mile and performance**

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JALALI H., ANSARIPOOR A., RAMANI V., DE GIOVANNI P.

**Closed-loop supply chain models with coopetition options**

International Journal of Production Research, 2022, vol.60, no. 10, pp.3078-3106

DE GIOVANNI P.

**Leveraging the circular economy with a closed-loop supply chain and a reverse omnichannel using blockchain technology and incentives**

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DE GIOVANNI P., CARIOLA A.

**Process innovation through industry 4.0 technologies, lean practices and green supply chains**

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**Scaling Up Smart City Logistics Projects: The Case of the Smooth Project**

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**A dynamic supply chain game with vertical coordination and horizontal competition**

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**Bi-objective optimization for customers' satisfaction improvement in a Public Bicycle Sharing System**

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DE GIOVANNI P.

**Smart Supply Chains with vendor managed inventory, coordination, and environmental performance**

European Journal of Operational Research, 2021, vol.292, no. 2, pp.515–531

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**Dynamic pricing and green investments under conscious, emotional, and rational consumers**

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CESARETTO R., BURATTO A., DE GIOVANNI P.

**Mitigating the feature fatigue effect for smart products through digital servitization**

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DE GIOVANNI P.

**Recursive Effects to Study Feature-Based Capabilities in Supply Chain Management**

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JALALI H., ANSARIPOOR A. H., DE GIOVANNI P.

**Closed-loop supply chains with complementary products**

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MARANESI C., DE GIOVANNI P.

**Modern Circular Economy: Corporate Strategy, Supply Chain, and Industrial Symbiosis**

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**Blockchain and smart contracts in supply chain management: A game theoretic model**

International Journal of Production Economics, 2020, vol.228, pp.107855

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**An optimal control model with defective products and goodwill damages**

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**Compulsory licenses in the pharmaceutical industry: Pricing and R&D strategies**

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**Closed-loop supply chain games with innovation-led lean programs and sustainability**

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**When feature-based production capabilities challenge operations**

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International Journal of Production Economics, 2019, vol.218, pp.72-82

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**Digital Supply Chain through Dynamic Inventory and Smart Contracts**

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**Optimal quality improvements and pricing strategies with active and passive product returns**

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**The impact of innovation strategies on the relationship between supplier integration and operational performance**

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DE GIOVANNI P., KARRAY S., MARTÍN-HERRÁN G.

**Vendor Management Inventory with consignment contracts and the benefits of cooperative advertising**

European Journal of Operational Research, 2019, vol.272, no. 2, pp.465-480

GENC T. S., DE GIOVANNI P.

**Optimal return and rebate mechanism in a closed-loop supply chain game**

European Journal of Operational Research, 2018, vol.269, no. 2, pp.661-681

DE GIOVANNI P.

**A joint maximization incentive in closed-loop supply chains with competing retailers: The case of spent-battery recycling**

European Journal of Operational Research, 2018, vol.268, no. 1, pp.128-147

PREEKER T., DE GIOVANNI P.

**Coordinating innovation projects with high tech suppliers through contracts**

Research Policy, 2018, vol.47, no. 6, pp.1161-1172

DE GIOVANNI P., RAMANI V.

**Product cannibalization and the effect of a service strategy**

Journal of the Operational Research Society, 2018, vol.69, no. 3, pp.340-357

RAMANI V., DE GIOVANNI P.

**A two-period model of product cannibalization in an atypical Closed-loop Supply Chain with endogenous**

**returns: The case of DellReconnect**

European Journal of Operational Research, 2017, vol.262, no. 3, pp.1009-1027

DE GIOVANNI P.

**Closed-loop supply chain coordination through incentives with asymmetric information**

Annals of Operations Research, 2017, vol.253, no. 1, pp.133-167

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**Trade-in and save: A two-period closed-loop supply chain game with price and technology dependent returns**

International Journal of Production Economics, 2017, vol.183, pp.514-527

COLICEV A., DE GIOVANNI P., VINZI V. E.

**An empirical investigation of the antecedents of partnering capability**

International Journal of Production Economics, 2016, vol.178, pp.144-153

DE GIOVANNI P.

**Coordination in a distribution channel with decisions on the nature of incentives and share-dependency on pricing**

Journal of the Operational Research Society, 2016, vol.67, no. 8, pp.1034-1049

DE GIOVANNI P., REDDY P. V., ZACCOUR G.

**Incentive strategies for an optimal recovery program in a closed-loop supply chain**

European Journal of Operational Research, 2016, vol.249, no. 2, pp.605-617

DE GIOVANNI P.

**State- and Control-Dependent Incentives in a Closed-Loop Supply Chain with Dynamic Returns**

Dynamic Games and Applications, 2016, vol.6, no. 1, pp.20-54

SLUIS S., DE GIOVANNI P.

**The selection of contracts in supply chains: An empirical analysis**

Journal of Operations Management, 2016, vol.41, no. 1, pp.1-11

DE GIOVANNI P., ESPOSITO VINZI V.

**The benefits of a monitoring strategy for firms subject to the Emissions Trading System**

Transportation Research Part D: Transport and Environment, 2014, vol.33, pp.220-233

GOTSCHOL A., DE GIOVANNI P., ESPOSITO VINZI V.

**Is environmental management an economically sustainable business?**

Journal of Environmental Management, 2014, vol.144, pp.73-82

DE GIOVANNI P.

**Environmental collaboration in a closed-loop supply chain with a reverse revenue sharing contract**

Annals of Operations Research, 2014, vol.220, no. 1, pp.135-157

DE GIOVANNI P., ZACCOUR G.

**A two-period game of a closed-loop supply chain**

European Journal of Operational Research, 2014, vol.232, no. 1, pp.22-40

DE GIOVANNI P., ESPOSITO VINZI V.

**The benefits of the emissions trading mechanism for Italian firms: a multi-group analysis**

International Journal of Physical Distribution & Logistics Management, 2014, vol.44, no. 4, pp.305-324

DE GIOVANNI P., CARIOLA A., PASSARELLI M.

**Recent developments on Reactivity: Theoretical conceptualization and empirical verification**

European Journal of Operational Research, 2013, vol.231, no. 3, pp.690-701

DE GIOVANNI P., ROSELLI M.

**Overcoming the drawbacks of a revenue-sharing contract through a support program**

Annals of Operations Research, 2012, vol.196, no. 1, pp.201-222

DE GIOVANNI P., ESPOSITO VINZI V.

**Covariance versus component-based estimations of performance in green supply chain management**

International Journal of Production Economics, 2012, vol.135, no. 2, pp.907-916

DE GIOVANNI P.

**Do internal and external environmental management contribute to the triple bottom line?**

International Journal of Operations & Production Management, 2012, vol.32, no. 3, pp.265-290

DE GIOVANNI P.

**Quality improvement vs. advertising support: Which strategy works better for a manufacturer?**

European Journal of Operational Research, 2011, vol.208, no. 2, pp.119-130

DE GIOVANNI P.

**The impact of knowledge tasks and roles on firm success and performance: a structural model**

International Journal of Knowledge Management Studies, 2010, vol.4, no. 3, pp.265-280

DE GIOVANNI P.

**The state of the art in static and dynamic games**

The European Business Review, 2009, vol.21, no. 6, pp.547-566

ELOUARDIGHI F., DE GIOVANNI P., TARONDEAU J.

**The French experience of supply chain management - L'expérience française du supply chain management**

Revue Française de Gestion, 2008, vol.186, no. 6, pp.89-116

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## RESEARCH MONOGRAPHS

DE GIOVANNI P., FOLGIERO P.

**Strategies for the circular economy. Circular districts and networks**

Routledge, London, Great Britain, 2023

DE GIOVANNI P.

**Supply Chain Coordination: A Multi-Sector Comparative Case Study Analysis**

Aracne Editrice, Roma, Italy, 2016

DE GIOVANNI P.

**The Operationalization of Reactivity: Qualitative Investigation and Empirical Analysis**

Aracne Editrice, Roma, Italy, 2016

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## PRACTICE-ORIENTED BOOKS

DE GIOVANNI P.

**Strategie di resilienza in operations management. Casi aziendali ed esperienze di eccellenza**

Egea, Milano, Italy, 2025

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## CONTRIBUTION TO CHAPTERS, BOOKS OR RESEARCH MONOGRAPHS

DE GIOVANNI P.

**Circular Economy in the Textile Industry** in *Cases on Circular Economy in Practice*

Pietro De Giovanni(Ed), IGI Global, chap. 9, pp.180-207, 2022



DE GIOVANNI P.

**The Waste Cascade in Dell Reconnect With a Focus on Plastic Packaging** in *Cases on Circular Economy in Practice*

Pietro De Giovanni(Ed), IGI Global, chap. 10, pp.208-237, 2022

ZUGARO R., DE GIOVANNI P.

**Application of Blockchain in the Saffron Industry** in *Blockchain Technology Applications in Businesses and Organizations*

Pietro De Giovanni (Eds),IGI Global, chap. 5, pp.99-118, 2022

PRENCIPE M. P., MALEKI VISHKAEI B., DE GIOVANNI P.

**Blockchain Adoption in the Winery Industry** in *Blockchain Technology Applications in Businesses and Organizations*

Pietro De Giovanni (Eds),IGI Global, chap. 3, pp.43-72, 2022

ARANGIARO V., VISHKAEI B. M., DE GIOVANNI P.

**Blockchain for Circular Economy in the Furniture Sector** in *Cases on Circular Economy in Practice*

Pietro De Giovanni (Eds),IGI Global, chap. 11, pp.238-275, 2022

MALONGA BIBILA A. V., DE GIOVANNI P.

**How ENI Can Improve Procurement Through Blockchain Technology** in *Blockchain Technology Applications in Businesses and Organizations*

Pietro De Giovanni (Eds),IGI Global, chap. 8, pp.162-187, 2022

RUZZA D., BERNASCONI G., DE GIOVANNI P.

**How Genuino Applies Blockchain Technology in the Collectibles Industry** in *Blockchain Technology Applications in Businesses and Organizations*

Pietro De Giovanni (Eds),IGI Global, chap. 1, pp.1-18, 2022

DE GIOVANNI P., GENÇ T. S.

**Coordination in Closed-Loop Supply Chain with Price-Dependent Returns** in *Games in Management Science*  
Pierre-Olivier Pineau, Simon Sigué, Sihem Taboubi (Eds),Springer International Publishing, pp.87-113, 2020

DE GIOVANNI P., TRAMONTANA F.

**A Discrete Model of Conformance Quality and Advertising in Supply Chains** in *Advances in Dynamic and Mean Field Games*

Joseph Apaloo, Bruno Viscolani (Eds),Springer International Publishing, pp.199-216, 2017

DE GIOVANNI P., ZACCOUR G.

**Cost-Revenue Sharing in a Closed-Loop Supply Chain** in *Advances in Dynamic Games*

Pierre Cardaliaguet, Ross Cressman (Eds),Birkhäuser, pp.395-421, 2013

DE GIOVANNI P.

**Should a Retailer Support a Quality Improvements Strategy?** in *Advances in Dynamic Games*

Vlastimil Krivan, Georges Zaccour(Ed), Springer International Publishing, pp.125-148, 2013

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## ARTICLES IN NATIONAL/INTERNATIONAL NEWSPAPERS

DE GIOVANNI P.

**La logistica diventa un acceleratore di sviluppo sociale**

Libero, 23 October, 2024

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## PROCEEDINGS/PRESENTATIONS

VISHKAEI B. M., DE GIOVANNI P.

**Refilling glass bottles as a circular economy practice: a game theory model**

*EURAM 2024 - European Academy of Management Conference, June 24-28 2024, Bath, Great Britain*

RUZZA D., DE GIOVANNI P., VISHKAEI B. M.

**Unlocking the blockchain potentials through oracles: Empirical evidence on supply chain challenges and performance**

*Sinergie-SIMA Management Conference 2023, 29-30 June, 2023, Bari, Italy*

HACHEM W. E., DE GIOVANNI P.

**Transition to alternative fuel vehicles: a distributive justice perspective**

*2018 Winter Simulation Conference (WSC) - 9-12 December, 2018, Gothenburg, Sweden*

DE GIOVANNI P.

**A Differential Game for Supply Chain Collaboration on Knowledge Accumulation and Management**

*Proceedings of the 10th European Conference on Knowledge Management, Università degli Studi di Padova, 3-4 September, 2009, Vicenza, Italy*

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## Grants & Honors

2% Top Scientist in the World, Elsevier BV – Stanford University , 2023

2% Top Scientist in the World, Elsevier BV – Stanford University , 2022

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