

Xavier BRUSSET

Professeur

Académie : Digitalisation

Centre de recherche : SKEMA Centre for Analytics and Management Science

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Intérêts de recherche

Information Systems applied to logistics and supply chain management, organization and management of operations for large and small firms, Problem solving of managerial issues affecting the efficiency and profitability of operations of both inbound and outbound logistics and as well as information processes, Supply chain management, distribution, blockchain, risque météorologique

Domaines d'enseignement

Information Systems applied to logistics and supply chain management, Organization and management of operations for large and small firms, Problem solving of managerial issues affecting the efficiency and profitability of operations of both inbound and outbound logistics and as well as information processes, Risque météorologique, Supply chain management

Formation

2016	HDR en Sciences de Gestion, Université Paris Nanterre, France
2010	Doctorat en sciences de gestion, Université catholique de Louvain, Belgique
2003	DEA, Université catholique de Louvain, Belgique

Expérience Professionnelle

Positions académiques principales

Depuis 2016	Professor in Supply Chain, SKEMA Business School, France
2015 - 2016	Professor in Purchasing and Supply Chain, Toulouse Business School, France
2009 - 2015	Associate Professor in Purchasing and Supply Chain & In charge of the Master 2 in Achats et Supply Chain Management, ESSCA School of Management, France

Autres affiliations académiques

Depuis 2017	Director of the PRISM Research Centre, SKEMA Business School, France
2017 - 2019	Program Director - Master of Science in Supply Chain Management and Purchasing, SKEMA Business School, France

Autres expériences professionnelles

2007 - 2009	Project Manager, TransLogisTIC, Belgique
2000 - 2002	Co-Founder & Marketing/Sales Manager, WebLogistix, Argentine
1997 - 2000	Sales Representative, PERAX, AREAL, Argentine
1995 - 1997	Money Market fund Manager, Banque Française du Commerce Extérieur, France
1994 - 1995	Fixed Income strategist, Société Générale, France
1992 - 1994	Futures broker, Paine Webber France, France

Autres expériences professionnelles

1987 - 1992 Interest rate futures broker, X. Dupont F.Denant Stockmarket broker, France

Publications

Articles académiques revus

BRUSSET, X., JEBALI, A., LA TORRE, D. et LIUZZI, D. (2025). Production optimization in the time of pandemic: an SIS-based optimal control model with protection effort and cost minimization. *Annals of Operations Research*, 344, pp. 79-102.

BROEKAERT, J., LA TORRE, D., HAFIZ, F. et BRUSSET, X. (2025). The diverging control policy's hand in supranational supply chain reconfiguration. *International Journal of Production Economics*, 284, pp. 109567.

BRUSSET, X., KINRA, A., NASERALDIN, H. et ALKHUDARY, R. (2024). Increasing willingness to pay in the food supply chain: a Blockchain-oriented trust approach. *International Journal of Production Research*, 62(24), pp. 8858-8879.

BRUSSET, X., ZHANG, L., MA, Y., ZHANG, F. et QIAO, P. (2024). Resilience of interdependent supply chain networks design and protection under the ripple effect. *International Journal of Production Research*, 62(24), pp. 8651-8677.

BERTRAND, J.L., CHABOT, M., BRUSSET, X. et COURQUIN, V. (2024). Identifying assets exposed to physical climate risk: A decision-support methodology. *International Journal of Production Economics*, 276(109355).

BRUSSET, X., JEBALI, A. et LA TORRE, D. (2023). Production optimisation in a pandemic context. *International Journal of Production Research*, 61(5), pp. 1642-1663.

BRUSSET, X., DAVARI, M., KINRA, A. et LA TORRE, D. (2023). Modelling ripple effect propagation and global supply chain workforce productivity impacts in pandemic disruptions. *International Journal of Production Research*, 61(8), pp. 2493-2512.

BRUSSET, X., IVANOV, D., JEBALI, A., LA TORRE, D. et REPETTO, M. (2023). A dynamic approach to supply chain reconfiguration and ripple effect analysis in an epidemic. *International Journal of Production Economics*, 263, pp. 108935.

BRUSSET, X., JEBALI, A., LA TORRE, D. et MAZAHIR, S. (2022). Optimal Pollution Control in a Dynamic Multi-echelon Supply Chain. *Environmental Modeling and Assessment*, 27, pp. 585-598.

BERTRAND, J.L., BRUSSET, X. et CHABOT, M. (2021). Protecting Franchise Chains against Weather Risk: A Design Science Approach. *Journal of Business Research*, 125, pp. 187-200.

REICH, J., KINRA, A., KOTZAB, H. et BRUSSET, X. (2021). Strategic global supply chain network design – how decision analysis combining MILP and AHP on a Pareto front can improve decision-making. *International Journal of Production Research*, 59(5), pp. 1557-1572.

ALKHUDARY, R., BRUSSET, X. et FENIÈS, P. (2020). Blockchain in General Management and Economics: A Systematic Literature Review. *European Business Review*, 32(4), pp. 765-783.

TELLER, C., BRUSSET, X. et KOTZAB, H. (2019). Physical and Digital Market Places - Where Marketing Meets Operations. *International Journal of Retail and Distribution Management*, 47(12), pp. 1225-1231.

BRUSSET, X. et BERTRAND, J.L. (2018). Hedging weather risk and coordinating supply chains. *Journal of Operations Management*, 64(1), pp. 41-52.

BERTRAND, J.L. et BRUSSET, X. (2018). Managing the financial consequences of weather variability. *Journal of Asset Management*, 19(5), pp. 301-315.

BRUSSET, X. et AGRELL, P. (2017). Intrinsic impediments to category captainship collaboration. *Journal of Industrial and Management Optimization*, 13(1), pp. 113-133.

BRUSSET, X. et TELLER, C. (2017). Supply Chain Capabilities, Risks, and Resilience. *International Journal of Production Economics*, 184, pp. 59-68.

- BRUSSET, X. (2016). Does supply chain visibility enhance agility? *International Journal of Production Economics*, 171(1), pp. 46-59.
- BRUSSET, X. (2016). When manufacturers hold information back from strong suppliers. *RAIRO - Operations Research*, 50(3), pp. 553-565.
- BERTRAND, J.L., BRUSSET, X. et FORTIN, M. (2015). Assessing and hedging the cost of unseasonal weather: case of the apparel sector. *European Journal of Operational Research*, 243(1), pp. 345-363.
- BRUSSET, X. et AGRELL, P. (2015). Dynamic supply chain coordination games with repeated bargaining. *Computers & Industrial Engineering*, 80, pp. 12-22.
- BRUSSET, X. (2014). Estimating the supply chain efficiency loss when the seller has to estimate the buyer's willingness to pay. *RAIRO - Operations Research*, 48(4), pp. 477-496.
- BRACH, F. et BRUSSET, X. (2014). La reverse logistique en tant qu'avantage compétitif. *Revue Française de Gestion Industrielle*, 33(1), pp. 33-53.
- BRUSSET, X. (2012). Avantages économiques du partage de l'information dans une chaîne étendue. *Revue Française de Gestion Industrielle*, 31(2), pp. 103-119.
- BRUSSET, X. (2009). Choosing a transport contract over multiple periods. *International Journal of Logistics Systems and Management*, 5(3-4), pp. 273-322.
- BRUSSET, X. et TEMME, N. (2007). Optimizing an objective function under a bivariate probability model. *European Journal of Operational Research*, 179(2), pp. 444-458.

Ouvrages et édition d'ouvrages

- BRUSSET, X. [Ed] (2013). *Cas en distribution: 7 cas réels d'entreprises. Corrigés détaillés*. EMS Éditions, 122 pages.
- BRUSSET, X. (2010). *Modeling contractual relationships in transport*. Presses universitaires de Louvain, 268 pages.

Chapitres d'ouvrage

- BRUSSET, X., LA TORRE, D. et BROEKAERT, J. (2022). Algorithms, Analytics and Artificial Intelligence - Harnessing Data to Make Supply Chain Decisions. Dans: Bart MacCarthy, Dmitry Ivanov eds. *The Digital Supply Chain*. 1st ed. Amsterdam: Elsevier, pp. 93-110.
- BRUSSET, X., DAVARI, M., KINRA, A. et LA TORRE, D. (2021). Modelling COVID-19 Ripple Effect and Global Supply Chain Productivity Impacts Using a Reaction-Diffusion Time-Space SIS Model. Dans: Alexandre Dolgui, Alain Bernard, David Lemoine, Gregor von Cieminski, David Romero eds. *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems*. 1st ed. Nantes: Springer, pp. 3-12.
- BRUSSET, X. (2013). Gestion de la qualité en distribution: Cas Pizzeria. Dans: Xavier Brusset (ed.). *Cas en distribution: 7 cas réels d'entreprises*. 1st ed. Paris: EMS Éditions, pp. 102-118.
- BRUSSET, X. (2009). Multi Period contracts in transport under asymmetric information and prior investments. Dans: Stefan Voss and Julia Pahl and Silvia Schwarze (ed.). *Logistik Management, Systeme, Methoden, Integration*. 1st ed. Springer, pp. 37-54.
- BRUSSET, X. (2007). Endogenous choice of procurement contracts in a supply chain. Dans: René de Koster and Werner Delfmann (ed.). *Managing Supply Chains: Challenges and Opportunities*. 1st ed. Copenhagen Business School Press, pp. 145-174.
- BRUSSET, X. et TEMME, N. (2005). The impact of information and coordination on transport procurement. Dans: René de Koster and Werner Delfmann (ed.). *Supply Chain Management -- European Perspectives*. 1st ed. Copenhagen Business School Press, pp. 239-261.

Editeur invité d'un numéro spécial

- KOTZAB, H., BRUSSET, X. et PETLJAK, K. (2023). Guest editorial: The new age of retailing: rethink, reconnect, revive. *International Journal of Retail and Distribution Management*, 51(9/10), pp. 1061-1064.

FRASQUET, M., BRUSSET, X., KOTZAB, H. et TELLER, C. (2021). Transforming Retail Channels in the Digital Era: Marketing and Operations Perspectives - Guest Editorial. *International Journal of Retail and Distribution Management*, 49(7), pp. 813-816.

BRUSSET, X., TELLER, C. et KOTZAB, H. (2017). Guest Editorial. *International Journal of Retail and Distribution Management*, 45(7-8), pp. 686-688.

Editoriaux d'une revue

BRUSSET, X. (2022). Guest editorial: Building resilience in retail for the post COVID-19 world - marketing and operations perspective. *International Journal of Retail and Distribution Management*, 50(8/9), pp. 897-899.

Actes d'une conférence

BRUSSET, X., DAVARI, M., KINRA, A. et LA TORRE, D. (2021). Modelling COVID-19 Ripple Effect and Global Supply Chain Productivity Impacts Using a Reaction-Diffusion Time-Space SIS Model. pp. 3-12.

ALKHUDARY, R., BRUSSET, X. et FENIÈS, P. (2020). Blockchain and Risk in Supply Chain Management., 23, pp. 159-165.

BRUSSET, X. et BERTRAND, J.L. (2019). Impact of the weather on the price of potatoes.

BRUSSET, X. et DELAFENESTRE, R. (2018). New business models in supply chains: a bibliometric study.

BRUSSET, X. et AGRELL, P. (2018). Use and Misuse of supply chain echelon competition to improve efficiency. pp. 23-29.

DELAFENESTRE, R. et BRUSSET, X. (2018). Supply Chains and New Supply Chain Business Models: literature review and research agenda.

BRUSSET, X. et BERTRAND, J.L. (2018). Mitigating the consequences of abnormal weather: evidence from the cosmetics industry in the framework of chaos theory.

BRUSSET, X. et BERTRAND, J.L. (2017). Coordinating retailers and hedging weather risk in supply chains.

BRUSSET, X., DELAFENESTRE, R. et LECOEUUVRE, L. (2017). Business process approach to risk mitigation in projects and supply chains, case studies.

BRUSSET, X. et DJERBI, Z. (2017). The impact of logistics turbulence on performance and the mitigating role of management controls.

DELAFENESTRE, R. et BRUSSET, X. (2017). Internet of Things, Big Data, and new business models: a literature review.

Conférencier invité

BRUSSET, X. (2023). Introduction to the 8th Colloquium on European Research in Retailing. Dans: CERR 2023. Portsmouth.

BRUSSET, X. (2022). Colloquium on European Research in Retailing. Dans: Colloquium on European Research in Retailing. Zagreb.

BRUSSET, X. (2021). Colloquium on European Research in Retailing. Dans: Colloquium on European Research in Retailing. Sophia Antipolis.

BRUSSET, X. (2018). Colloquium on European Research in Retailing. Dans: Colloquium on European Research in Retailing. Guildford.

BRUSSET, X. (2016). Colloquium on European Research in Retailing. Dans: Colloquium on European Research in Retailing. Toulouse.

Présentations dans des conférences

SUAREZ, M. et BRUSSET, X. (2024). Redesigning Demand-Driven Supply Chains: A Longitudinal Study-Based Approach. Dans: 19th CSCMP European Research Symposium (ERS) on Logistics and Supply Chain Management. Warsaw.

BRUSSET, X. (2023). Colloquium on European Research in Retailing. Dans: Colloquium on European Research in Retailing. Portsmouth.

BRUSSET, X. et SUAREZ, M. (2023). Last Mile Collaboration Business Models and Incentive Schemes. Dans: International Physical Internet Conference 2023. Athens.

BRUSSET, X. (2023). Business Models and Information requirements for AI last mile distribution models. Dans: URBANE Second Face to Face meeting. Helsinki.

BRUSSET, X., BERTRAND, J.L. et CHABOT, M. (2023). Do firms with ESG risks develop enough managerial control effort? Dans: POMS Paris 2023. Paris.

SUAREZ, M. et BRUSSET, X. (2023). Last Mile Collaboration: Business Models and Incentive Schemes. Dans: IPIC 2023. Athens.

BRUSSET, X., KINRA, A., ALKHUDARY, R. et NASERALDIN, H. (2022). Increasing willingness to pay in a food supply chain: a blockchain approach. Dans: CLAIO 2022. Buenos Aires.

ALKHUDARY, R., BRUSSET, X. et OKOLI, C. (2021). In blockchain we trust? A critical review of blockchain in supply chains. Dans: MIS Quarterly Author Development Workshop. Virtual.

ALKHUDARY, R., BRUSSET, X. et OKOLI, C. (2020). A Theory of Trust and Performance with Blockchain in Supply Chains. Dans: JAIS Theory Development Workshop. Baylor.

BRUSSET, X. et DELAFENESTRE, R. (2018). New business models in supply chains: a bibliometric study. Dans: CERR Colloquium on European Research in Retailing. Guildford.

BRUSSET, X. et BERTRAND, J.L. (2018). Mitigating the consequences of abnormal weather: evidence from the cosmetics industry in the framework of chaos theory. Dans: ILS conference. Lyon.

BRUSSET, X. et DELAFENESTRE, R. (2018). Supply Chains and New Business Models: literature review and research agenda. Dans: ILS conference. Lyon.

BERTRAND, J.L. et BRUSSET, X. (2018). Managing risks and opportunities of weather variability. Dans: Financial Risks International Forum. Paris.

LECOEUVRE, L., DELAFENESTRE, R. et BRUSSET, X. (2017). New actors, new processes: how to make risk management better, case studies. Dans: NOFOMA Conference. Lund.

BRUSSET, X. et DJERBI, Z. (2017). The impact of logistics emergencies on performance and the mitigating role of management controls. Dans: NOFOMA Conference. Lund.

BRUSSET, X. et BERTRAND, J.L. (2017). Coordinating retailers and hedging weather risk in supply chains. Dans: EUROMA Conference. Edinburgh.

Présentations dans des séminaires de recherche

BRUSSET, X. (2022). Modelling Ripple Effect Propagation And Global Supply Chain Workforce Productivity Impacts. Dans: Informs Annual Conference. indianapolis.

BRUSSET, X. (2022). Increasing willingness to pay in the food supply chain: a Blockchain approach. Dans: CLAIO 2022. Buenos Aires.

BRUSSET, X. (2021). Modelling COVID-19 Ripple Effect and Global Supply Chain Productivity Impacts Using a Reaction-Diffusion Time-Space SIS Model. Dans: IFIP 2021. Nantes.

BRUSSET, X. (2020). Maximizing Trust in the Olive Oil Supply Chain: A Blockchain-Based Approach. Dans: Colloquium on European Research in Retailing. Valence.

BRUSSET, X. (2020). Protecting franchise networks against weather risk, a methodology. Dans: EWGR Retail. Istantboul.

Autres activités de recherche

Editeur associé d'une revue

2022 - 2023 International Journal of Retail and Distribution Management
2020 - 2022

Membre d'un comité éditorial

2022 - 2023 International Journal of Retail and Distribution Management

Relecteur pour :

International Journal of Production Economics, International Journal of Operational Research, Production Planning and Control, Journal of the Operational Research Society, Operations Research, Supply Chain Forum: An International Journal, Systèmes d'Information et Management, Recherche et Applications en Marketing, International Journal of Retail and Distribution Management, International Journal of Production Research, European Journal of Operational Research, International Journal of Physical Distribution and Logistics Management, International Journal of Production Economics

Organisation d'une conférence ou d'un séminaire

2021 - 2022 Organisateur de conférence internationale, SKEMA Business School, France

Supervision de thèses / HDR

2024 V. CAPOCASALE, Doctorat, Rapporteur
2021 R. ALKHUDARY, Université Paris 2 Panthéon-Assas, Doctorat, Co-directeur de thèse

Autres activités académiques

2020 Expert evaluation of European Project, Innovation and Networks Executive Agency (INEA), Belgique
2020 Innovation and Networks Executive Agency (INEA), Innovation and Networks Executive Agency (INEA), Belgique
2018 Innovation and Networks Executive Agency (INEA), Innovation and Networks Executive Agency (INEA), Belgique