

Jan BROEKAERT

Chercheur postdoctoral

Académie : Digitalisation

Centre de recherche : SKEMA Centre for Analytics and Management Science

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Formation

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|------|---|
| 1994 | PhD en Physique, Vrije Universiteit Brussel, Belgique |
| 1987 | Master of Science en Physique, Vrije Universiteit Brussel, Belgique |

Expérience Professionnelle

Positions académiques principales

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| 2019 - 2020 | Chercheur postdoctoral, University of Leeds, Royaume Uni |
| 2017 - 2019 | Chercheur postdoctoral, Indiana University Bloomington, Etats-Unis d'Amérique |
| 2010 - 2017 | Chargé de cours non permanent, Vrije Universiteit Brussel, Belgique |

Autres affiliations académiques

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| 2016 - 2017 | Membre d'une équipe de recherche, City St George's, University of London, Royaume Uni |
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Publications

Articles académiques revus

- HAFIZ, F., BROEKAERT, J. et SWAIN, A. (2025). Evolution of Neural Architectures for Financial Forecasting: A Note on Data Incompatibility during Crisis Periods. *Annals of Operations Research*, 346, pp. 1011-1025.
- MUBASHIR WANI, M., HAFIZ, F., SWAIN, A. et BROEKAERT, J. (2025). Balancing energy consumption and thermal comfort in buildings: a multi-criteria framework. *Annals of Operations Research*, 346, pp. 1841-1867.
- BROEKAERT, J., LA TORRE, D. et HAFIZ, F. (2025). The impact of the psychological effect of infectivity on Nash-balanced control strategies for epidemic networks. *Annals of Operations Research*, 351, pp. 1743-1765.
- BROEKAERT, J., HAFIZ, F., LA TORRE, D. et JAYARAMAN, R. (2025). Managing resilience and viability of supranational supply chains under epidemic control scenarios. *Omega*, 133, pp. 103234.
- 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.
- BROEKAERT, J., LA TORRE, D. et HAFIZ, F. (2024). Competing control scenarios in probabilistic SIR epidemics on social-contact networks. *Annals of Operations Research*, 336, pp. 2037-2060.
- HAFIZ, F., BROEKAERT, J., LA TORRE, D. et SWAIN, A. (2024). A multi-criteria approach to evolve sparse neural architectures for stock market forecasting. *Annals of Operations Research*, 167(106680), pp. 1-45.
- BROEKAERT, J., LA TORRE, D., HAFIZ, F. et REPETTO, M. (2024). A comparative cost assessment of coalescing epidemic control strategies in heterogeneous social-contact networks. *Computers & Operations Research*, 167, pp. 106680.

HAFIZ, F., BROEKAERT, J., LA TORRE, D. et SWAIN, A. (2023). Co-evolution of Neural Architectures and Features for Stock Market Forecasting: A Multi-objective Decision Perspective. *Decision Support Systems*, 174, pp. 114015.

HANCOCK, T., BROEKAERT, J., HESS, S. et CHOUDHURY, C. (2020). Quantum probability: a new method for modelling travel behaviour. *Transportation Research - Part B: Methodological*, 139, pp. 165-198.

HANCOCK, T., BROEKAERT, J., HESS, S. et CHOUDHURY, C. (2020). Quantum choice models: A flexible new approach for understanding moral decision-making. *Journal of Choice Modelling*, 37, pp. 100235.

BROEKAERT, J., BUSEMEYER, J. et POTHOS, E. (2020). The Disjunction Effect in two-stage simulated gambles. An experimental study and comparison of a heuristic logistic, Markov and quantum-like model. *Cognitive Psychology*, 117.

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.

Articles professionnels

BROEKAERT, J. et BUSEMEYER, J. (2019). Episodic source memory over-distribution by quantum-like dynamics – A model exploration. *Lecture Notes in Computer Science*.

Actes d'une conférence

BROEKAERT, J. et LA TORRE, D. (2021). A Vector Logistic Dynamical Approach to Epidemic Evolution on Interacting Social-Contact and Production-Capacity Graphs. *Springer*, 633.

Autres activités de recherche

Supervision de thèses / HDR

2017 F. U. KAPUTU, Vrije Universiteit Brussel, Doctorat, Directeur de thèse

2013 K. DE LOOZE, Vrije Universiteit Brussel, Doctorat, Directeur de thèse