

Jan BROEKAERT

Postdoctoral researcher

Academy: Digitalization

Research center: SKEMA Centre for Analytics and Management Science

Campus: SOPHIA

Email: jan.broekaert@skema.edu

Education

- 1994 PhD in Physics, Vrije Universiteit Brussel, Belgium
- 1987 Master of Science in Physics, Vrije Universiteit Brussel, Belgium

Experience

Full-time academic positions

- 2019 - 2020 Postdoctoral researcher, University of Leeds, Great Britain
- 2017 - 2019 Postdoctoral researcher, Indiana University Bloomington, United States of America
- 2010 - 2017 Adjunct Faculty, Vrije Universiteit Brussel, Belgium

Other academic affiliations and appointments

- 2016 - 2017 Research team member, City, University of London, Great Britain

Publications

Peer-reviewed journal articles

- BROEKAERT, J., LA TORRE, D. and HAFIZ, F. (2024). The impact of the psychological effect of infectivity on Nash-balanced control strategies for epidemic networks. *Annals of Operations Research*.
- HAFIZ, F., BROEKAERT, J., LA TORRE, D. and 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.
- HAFIZ, F., BROEKAERT, J., LA TORRE, D. and SWAIN, A. (2023). A multi-criteria approach to evolve sparse neural architectures for stock market forecasting. *Annals of Operations Research*, pp. 1-45.
- MUBASHIR WANI, M., HAFIZ, F., SWAIN, A. and BROEKAERT, J. (2023). Balancing energy consumption and thermal comfort in buildings: a multi-criteria framework. *Annals of Operations Research*.
- BROEKAERT, J., LA TORRE, D. and HAFIZ, F. (2022). Competing control scenarios in probabilistic SIR epidemics on social-contact networks. *Annals of Operations Research*.

Book chapters

- BRUSSET, X., LA TORRE, D. and BROEKAERT, J. (2022). Algorithms, Analytics and Artificial Intelligence - Harnessing Data to Make Supply Chain Decisions. In: Bart MacCarthy, Dmitry Ivanov eds. *The Digital Supply Chain*. 1st ed. Amsterdam: Elsevier, pp. 93-110.

Conference proceedings

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

PhD supervision

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| 2017 | F. U. KAPUTU, Vrije Universiteit Brussel, PhD thesis, Thesis director |
| 2013 | K. DE LOOZE, Vrije Universiteit Brussel, PhD thesis, Thesis director |