Reconstructing illicit supply chains with sparse data

A simulation approach

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Propositions

associated with the dissertation
Reconstructing illicit supply chains with sparse data

by

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1. The main product of developing supply chain simulation models with sparse data for real-world applications, is conceptualizing the system using the viewpoints of multiple stakeholders; the computer-generated results are merely a by-product. *(This Dissertation)*

2. The hype around Artificial Intelligence leads to the overlooking of other established techniques for recognizing trends.

3. Research on Artificial Intelligence for supply chains should always consider data sparseness. *(This Dissertation)*

4. Within supply chain research, identifying effective interventions needs a systems approach. *(This Dissertation)*

5. Algorithms and data-driven models can only support but never replace the human in the socio-technical decision-making process[1].

6. A socio-technical complex problem never has one optimal solution.

7. The slowness of organizational innovation hampers the adoption of simulation results.

8. Being a Ph.D. bestie[2] in the same research field makes you an implicit co-author.

9. Community building is a pre-condition for collaboration.

10. Networking is working.

These propositions are regarded as opposable and defendable, and have been approved as such by the promotors prof.dr.ir. Alexander Verbraeck and prof.dr.ir. Jan H. Kwakkel.

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[1] Marchau, V.A.W.J., Walker, W.E., Bloemen, P.J.T.M., Popper, S.W. (2019). Introduction. In: Marchau, V., Walker, W., Bloemen, P., Popper, S. (eds) Decision Making under Deep Uncertainty. Springer, Cham. doi:10.1007/978-3-030-05252-2_1

[2] A fellow Ph.D. candidate who is a sparring partner, sounding board, rubber duck, and preferably, is in the same project group and office.