

Maria Isabel Azevedo Rodrigues Gomes

Nacionalidade: Portuguesa

Morada institucional: Departamento de Matemática, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa (DM - FCT Nova), Campus de Caparica, 2829-516 Caparica, Portugal

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Habilitações literárias

Doutoramento em Engenharia e Gestão Industrial, Instituto Superior Técnico (IST), novembro de 2007.

Mestrado em Investigação Operacional e Engenharia de Sistema, IST, julho de 1999.

Licenciatura Pré-Bolonha em Matemática Aplicada - Investigação Operacional, NOVA FCT, julho de 1996.

Cargo presente

Professora Associada, Departamento de Matemática, FCT Nova, desde setembro de 2018.

Principal área de investigação

Modelação e optimização

Campos de estudo

Desenvolvimento de modelos de optimização para problemas de gestão logística. Em particular, gestão de resíduos e rotas de recolha, projecto e planeamento da cadeia de abastecimento, localização de instalações, transporte e rotas de veículos. Optimização mono e multi-objetivo dirigida a abordar questões como o planeamento logístico, a sustentabilidade de sistemas e a tomada de decisão em contexto de aversão ao risco.

Outras áreas de interesse profissional

Modelação em Logística com especial foco em questões de impacto social (envelhecimento, carência alimentar...).

Publicações

Encontram-se publicados 45 artigos científicos referenciados na *Web-of-Science* com uma média de 21 citações por artigo. h-index 12. Curriculum Vitae completo disponível em <https://novaresearch.unl.pt/en/persons/maria-isabel-azevedo-rodrigues-gomes>.

Livros:

Pires, A., Martinho, G., Rodrigues, S., Gomes, M.I. 2018. Sustainable solid waste management: the role of waste collection. Springer.

(algumas) Publicações científicas internacionais com peer-review:

18. Mota B, A Carvalho, MI Gomes and AP Barbosa-Póvoa (2020). Business strategy for sustainable development: Impact of life cycle inventory and life cycle impact assessment steps in supply chain design and planning. *Business Strategy and the Environment*, 29(1), 87-117.

17. Ramos T, MI Gomes and AP Barbosa-Póvoa. (2019). Multi-depot vehicle routing problem: a comparative study of alternative formulations. *International Journal of Logistics Research and Applications* (disponível online)

16. Ramos T, MI Gomes and AP Barbosa-Póvoa. (2019). A new matheuristic approach for the multi-depot vehicle routing problem with inter-depot routes. *OR Spectrum* (disponível online)

15. Dias S, A Gama, P Abrantes, MI Gomes, M Fonseca, V Reigado, D Simões, E Carreiras, C Mora, A Pinto Ferreira, O Akpogheneta and MO Martins (2019) "Patterns of Sexual Risk Behavior, HIV Infection, and Use of Health Services Among Sub-Saharan African Migrants in Portugal." *The Journal of Sex Research*, 16(15), 2710

14. Gomes MI and Ramos TRP (2019) "Modelling and (Re-)Planning Periodic Home Social Care Services with Loyalty and Non-Loyalty Features." *European Journal of Operational Research*, 277: 284-299

13. Baptista S, AP Barbosa-Póvoa, LF Escudero, MI Gomes, and C Pizarro (2019) "On risk management of a two-stage stochastic mixed 0-1 model for the closed-loop supply chain design problem." *European Journal of Operational Research*, 274 (1), 91-107

12. Jassbi JJ, RA Ribeiro, LM Camarinha-Matos, J Barata, and MI Gomes (2018) "Continuous Reinforcement Operator applied to Resilience in Disaster Rescue Networks." In 2018 IEEE International Conference on Fuzzy Systems - FUZZ-IEEE, pp. 1-7.
11. Mota B, MI Gomes, A Carvalho, and AP Barbosa-Povoa (2018) "Sustainable supply chains: An integrated modeling approach under uncertainty." *Omega*, 77:32-57.
- Gonçalves J, MI Gomes, M Fonseca, T Teodoro, PP Barros and MA Botelho (2017) "Selfie ageing index: an index for the self-assessment of healthy and active ageing", *Frontiers in Medicine - Geriatric Medicine*, 4:236
10. Mota B, A Carvalho, MI Gomes, and AP Barbosa-Povoa (2017) "Sustainable supply chain design and planning: the importance of life cycle scope definition." In 27th European Symposium on Computer Aided Process Engineering - ESCAPE 27. Barcelona, Spain
9. Calvet L, A Ferrer, MI Gomes, A Juan, and D Masip (2016) "Combining Statistical Learning with Metaheuristics for the Multi-Depot Vehicle Routing Problem with Market Segmentation." *Computers and Industrial Engineering*, 94:93-104
8. Mota B, MI Gomes, A Carvalho, and AP Barbosa-Povoa (2015) "Towards supply chain sustainability: economic, environmental and social design and planning." *Journal of Cleaner Production*, 105: 14-27.
7. Ramos TRP, MI Gomes, and AP Barbosa-Póvoa (2014) "Planning a sustainable reverse logistics system: balancing costs with environmental and social concerns." *Omega* 48: 60-74.
6. Ramos TRP, MI Gomes, and AP Barbosa-Póvoa (2014) "Economic and environmental concerns in planning recyclable waste collection systems." *Transportation Research Part E: Logistics and Transportation Review* 62: 34-54.
5. Ramos TRP, MI Gomes, and AP Barbosa-Póvoa (2013) "Planning Waste Cooking Oil Collection Systems." *Waste Management* 33: 1691-1703.
4. Salema MIG, AP Barbosa-povoa, and AQ Novais (2011) "Modelling a recovery network for WEEE: A case study in Portugal." *Waste Management* 31: 1645-1660.
3. Furtado P, Gomes MI e Barbosa-Povoa AP (2011) "Design of an electric and electronic equipment recovery network in Portugal - costs vs. sustainability". In *Computer Aided Chemical Engineering* 29: 1200-1204.
2. Salema MIG, AP Barbosa-póvoa and AQ Novais (2010) "Simultaneous design and planning of supply chains with reverse flows: A generic modelling framework", *European Journal of Operational Research* 203 (2010): 336-349.
1. Salema MIG, AP Barbosa-póvoa and AQ Novais (2007) "An optimization model for the design of a capacitated multi-product reverse logistics network with uncertainty." *European Journal of Operational Research* 179: 1063-1077.

Prémios

2019 ISWA Publication Award International Solid Waste Association, Espanha

2013 Best paper on "Theory and Methodology" published on *European Journal of Operational Research*