Francisco Saldanha da Gama

Curriculum vitae

Personal information

Occupation	:	Professor, Sheffield University Management School
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Date of Birth	:	October 7, 1968
Citizenship	:	Portuguese
Languages	:	Portuguese, English, Spanish
Researcher	:	ORCID: orcid.org/0000-0002-2074-1856 Scopus Author ID: 22935365300 Researcher ID: K-7584-2012

Education

2002	Ph.D., Statistics and Operations Research, University of Lisbon, Portugal.
1994	M.Sc., Statistics and Operations Research, University of Lisbon, Portugal.
1991	B.Sc., Statistics and Operations Research, University of Lisbon, Portugal.

Employment

2023–	Chair in Supply Chain Management, Sheffield University Management School.
2020–2023	Habil. Associate Professor, Faculty of Science, University of Lisbon, Portugal.
2018–2020	Habil. Assistant Professor, Faculty of Science, University of Lisbon, Portugal.
2002–2018	Assistant Professor, Faculty of Science, University of Lisbon, Portugal, (tenure since 2007).
1995–2002	Teaching Assistant, Faculty of Science, University of Lisbon, Portugal.
1995–1996	Teaching Assistant, ISLA-Lisboa (currently European University), Lisbon, Portugal.
1993–1995	Teaching Assistant, Faculty of Engineering, Technical University of Lisbon.
1991	Trainee, Department of Development and Planning, Portugal Telecom, Lisbon, Portugal.

Teaching

In the past two decades has had a teaching workload including 240–300 hours a year (contact hours with the students) spanning five to seven different courses in UG and PG programs. Has prepared all the material (slides for lecturing, collections of exercises, homework or individual assignments, case studies, laboratory classes, tutorials for problem-solving using a computer, written exams, and web-based platforms to support teaching), and taught courses on different topics at the undergraduate and postgraduate levels: Logistics, Supply Chain Management, Operations Research, Operations Management, Decision Making under Uncertainty, Multicriteria Decision Making, Applied Statistics, Sampling Techniques, Forecasting, Quality Control, Decision Theory, Scheduling, and Revenue Management.

Administrative positions

2023–	Head of the Operations Management and Decision Sciences Research Center, Sheffield University Management School.
2019–2021	Coordinator of the undergraduate program in Applied Mathematics, Faculty of Science, University of Lisbon, Portugal.
2009–2012	Vice-president, Department of Statistics and Operations Research, Faculty of Science, University of Lisbon, Portugal.
2007–2011	Co-coordinator, EWGLA—The EURO Working Group on Locational Analysis.
2003–2009	Member of the Executive Board, Operations Research Center, University of Lisbon, Portugal.

Prizes and distinctions

2021	Silver Employer Award, Faculty of Science, University of Lisbon, Portugal.
2020	Roger-Charbonneau Prize, HEC Montreal, Quebec, Canada, awarded to the book G. Laporte, S. Nickel, F. Saldanha-da-Gama (editors), "Location Science", Springer International Publishing, second edition.
2017	Selected article for the 40th anniversary commemorative edition of the European Journal of Operational Research: "40 influential papers in the history of EJOR".
2014	Certificate of appreciation for the dedication and service as member of the Scientific Committee of CLAIO XVII/CSMIO III—Latin-Iberian-American Conference on Operations Research/Conference of the Mexican Society of Operations Research, Monterrey, Mexico, October 6–10, 2014.
2012	Elsevier "EJOR Top cited article 2007–2011".
2012	EURO "Best EJOR Review Paper".
1995	Laureate at the Twelfth EURO Summer Institute, Tenerife, Spain.

Research Grants and Scientific Projects

2023–2026	"Advanced techniques for the optimization and evaluation of resources". Grant funded by the Ministry of Economy and Competitiveness, Spain. International Researcher for advanced models and techniques in project scheduling.

2020–2023 "Optimization and evaluation of resources: methodological and computational advances and applications".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for advanced models and techniques in project scheduling and facility location.

2020–2023 "UIDB/04561/2020 and UIDP/04561/2020"—Centro de Matemática, Aplicações Fundamentais e Investigação Operacional.
Grant funded by the Portuguese Science Foundation.

2019–2021 "Optimización Matemática y Combinatoria en Redes".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for the development of models and solution techniques for stochastic network optimization with an emphasis on facility location and supply chain management.

2019–2021 "Analysis y resolucion de problemas de rutas de vehiculos y localizacion de servicios".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for supply chain network design under uncertainty.

2019 "UID/MAT/04561/2019"—Centro de Matemática, Aplicações Fundamentais e Investigação Operacional.
Grant funded by the Portuguese Science Foundation.

2017–2021 Project "Sequentielles Entscheiden bei systeminhärenter Unsicherheit: Mathematische Optimierungsverfahren für zeitdynamische Anwendungen", in German (Time-dependent decisions under uncertainty: optimization models and methods).
Team project funded by the Deutsche Forschungsgemeinschaft (DFG)—Project 354864080, Karlsruhe Institute of Technology, Karlsruhe, Germany.
Consultant Researcher for optimization under uncertainty.

2017–2019 Thematic Network "Location and Related Problems".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for supply chain network design under uncertainty.

2017, 2018 Project SFRH/BSAB/130291/2017.
Grant for a sabbatical period abroad funded by the Portuguese Science Foundation.

2016–2019 "DO-ILT: Optimizacion discreta para problemas integrados en logistica y transporte".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for advances in supply chain network design.

2015–2018 "UID/MAT/04561/2013"—Centro de Matemática, Aplicações Fundamentais e Investigação Operacional.
Grant funded by the Portuguese Science Foundation.

2015, 2016 "Embedding Risk in Supply Chain Network Design Problems", FCT-DAAD Portuguese-German bilateral project.
Grant funded by the Portuguese Science Foundation.

2014–2016 Thematic Network "Location and Related Problems".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for supply chain network design under uncertainty.

2012–2015 "OPTIMOS3: Modelos y métodos de Programación Matemática y sus aplicaciones".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for supply chain network design.

2011–2013 Thematic Network "Location and Related Problems".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for supply chain network design.

2009–2012 "OPTIMOS2: Modelos y métodos de Programación Matemática y sus aplicaciones".
Grant funded by the Ministry of Economy and Competitiveness, Spain.
International Researcher for supply chain network design.

2009, 2010 "Robust Supply Chain Network Design: New optimization models and solution methods.", FCT-DAAD Portuguese-German bilateral project.
Grant funded by the Portuguese Science Foundation.

2008 Project SFRH/BSAB/799/2008.
Grant for a sabbatical period abroad funded by the Portuguese Science Foundation.

1995–2014 Projects PRAXIS/2/2.1/MAT/139/94 and POCTI-ISFL-1-152—Centro de Investigação Operacional.
Grant funded by the Portuguese Science Foundation..
Role in the project: PhD student and Assistant Researcher.

1991–1993 Project 10/1991-07/1993.
Grant as an MSc student funded by Junta Nacional de Investigação Científica e Tecnológica (JNICT), Portugal—Current Portuguese Science Foundation.

Knowledge transfer / Projects with the Industry

2018–2021 **Planning for sheltering at the Turkish Red Crescent**.
Joint project with Bahar Kara (Bilkent University, Ankara, Turkey) and the Turkish Red Crescent, as part of a series of preparedness measures aiming at hedging against the consequences of a large earthquake in Istanbul that is expected sooner or later with unpredictable consequences.

Underpinning research outputs:
Omer Burak Kınay, Bahar Y. Kara, Francisco Saldanha-da-Gama, Isabel Correia, "Modeling the shelter site location problem using chance constraints: A case study for Istanbul", European Journal of Operational Research 270, 132–145, 2018.

Omer Burak Kınay, Francisco Saldanha-da-Gama, Bahar Y. Kara, "On multicriteria chance-constrained capacitated single-source discrete facility location problems", Omega 83, 107–122, 2019.

2011 **Project scheduling and management at Lageton, Engenharia e Empreendimentos, Lda.**
The project was developed in the context of an MSc thesis in collaboration with the Company Lageton — Engenharia e Empreendimentos, Lda. The budget established for the construction project was 7.000.000 Euros.
Cash management decisions were embedded in a project scheduling problem seeking a trade-off between time and cost. A computational system was developed not only for finding an optimal initial plan (including resource management) as well as for mending in the best possible way any sudden delay/disruption due to unexpected events. Aspects such as negative time lags and due dates for some activities led to several insightful breakthroughs in the field of project scheduling.

Underpinning research outputs:
Isabel Correia, Lídia Lampreia-Lourenço, Francisco Saldanha da Gama, "Project scheduling with flexible resources: formulation and inequalities", OR Spectrum, 34, 635–663, 2012.

2010 **Optimal replenishment policies for ATMs at Widescope**.
Joint Project with Isabel Correia (New University of Lisbon) and the Company Widescope (`www.widescope.pt`) for the Company SIBS (Sociedade Interbancária de Serviços, `https://www.sibs.com`).
The problem's relevance stems from the need to reach a trade-off between cash shortage and immobilization, minimizing both. The resulting time-dependent inventory problem under uncertainty was formulated and solved using dynamic programming. A computational system was developed to collect daily information and decide the best replenishment policy for the following day. Currently, several thousands of ATMs in Portugal are operated using the system developed in this Project.
This project resulted from my teaching experience in Dynamic Programming and Inventory Management.

Editorial work

- Editor-in-Chief, *Computers & Operations Research* (since 2016).
- Member of the Editorial Board, *International Journal of General Systems* (since 2023).
- Member of the Editorial Board, *Algorithms* (since 2021).
- Member of the International Editorial Advisory Board, *Journal of The Operational Research Society, UK* (since 2020).
- Consulting Editor of *Social Sciences & Humanities* (since 2019).
- Member of the Editorial Advisory Board, *Operations Research Perspectives* (since 2016).
- Area Editor, *Computers & Operations Research* (2013–2015).
- Member of the Editorial Advisory Board, *Computers & Operations Research* (2008–2012).
- Has reviewed more than one hundred and fifty papers for more than 20 scholarly journals in areas such as Operations Research and Management Science, Transportation, Logistics, Production and Operations Management, Optimization, and Business and Management.

PGR Supervision

1. Afaf Aloullal (PhD), "Multi-period stochastic programming models and techniques for logistics distribution systems", Polytechnic University of Hauts-de-France, Valenciennes, France, jointly supervised with Raca Todosijevic, 2020–.
2. Antonio Diglio (PhD), "Spacial organization of public services: models and applications", Università degli Studi di Napoli Federico II, 2019, co-supervised with Giuseppe Bruno (Università degli Studi di Napoli Federico II) and Stefan Nikel (Karlsruhe Institute of Technology).
3. Bernardo Ferreira de Almeida (PhD), "Multi-skill resource-constrained project scheduling problems: models and algorithms", Faculty of Science, University of Lisbon, Portugal, 2018, co-supervised with Isabel Correia (Faculty of Science and Technology, New University of Lisbon, Caparica, Portugal).
4. Hans-Peter Ziegler (PhD), "Algorithms for linear stochastic programs and their application in supply chain network design problems", KIT—Karlsruhe Institute of Technology, Germany, 2011, co-supervised with Stefan Nickel (Karlsruhe Institute of Technology, Germany).
   The thesis received the SOLA-Air Products Dissertation Award Honorable mention in the INFORMS meeting held in San Francisco, USA, November 2014.
5. Ana Wemans (MSc), "A Heuristic Approach for a Multi-Period Capacitated Single-Allocation Hub Location Problem", University of Lisbon, 2016.
6. Eliana Fernandes (MSc), "A heuristic approach for capacitated single allocation hub location problems", University of Lisbon, 2015.
7. Marta Miranda (MSc), "Optimização da Produção em Obra" (in Portuguese), University of Lisbon, 2011.
8. Leão Fernandes (MSc), "Elaboração de um plano de contingência para os sistemas de informação de um parque de combustíveis" (in Portuguese), University of Lisbon, 2007.

9. Pedro Machado (MSc), "Estimação do valor óptimo de um problema de Job-Shop Scheduling" (in Portuguese), University of Lisbon, 2006.
10. Margarida Silva (MSc), "Métodos exactos para a resolução de um problema de phase-in/phase-out multi-periódico para localização de serviços com capacidade" (in Portuguese), University of Lisbon, 2005.

Bibliometrics

Web of Science	57 entries; 3059 citations; h-index=27.
Scopus	66 entries; 3722 citations; h-index=29.
Google Scholar	97 entries; 7245 citations; h-index=36;

Books

3. Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama (editors), "Location Science", Springer, 2019, 2nd edition.

2. Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama (editors), "Location Science", Springer, 2015.

1. Ana Paias, Francisco Saldanha-da-Gama (editors), "EURO Winter Institute on Location and Logistics, Collection of papers", ISBN 978-989-20-0489-1, Centro de Investigação Operacional (Operations Research Center), University of Lisbon, 2007.

Book chapters

11. Maria Albareda-Sambola, Elena Fernández, Francisco Saldanha-da-Gama, "Some heuristic methods for discrete facility location with uncertain demands", in H.A. Eiselt and Vladimir Marianov (editors), Uncertainty in Facility Location Problems, Springer, pp: 391–431.

10. Iris Heckmann, Stefan Nickel, Francisco Saldanha-da-Gama, "Facility Location and Supply Chain Risk Analytics", in H.A. Eiselt and Vladimir Marianov (editors), Uncertainty in Facility Location Problems, Springer, pp:155–181.

9. Vedat Bayram, Bahar Y. Kara, Francisco Saldanha-da-Gama, Hande Yaman, "Humanitarian Logistics under Uncertainty: Planning for Sheltering and Evacuation", in H.A. Eiselt and Vladimir Marianov (editors), Uncertainty in Facility Location Problems, Springer, pp: 81–105.

8. Stefan Nickel, Francisco Saldanha-da-Gama, "Multi-period facility location", in Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama (editors), "Location Science", chapter 11, Springer, 2019, 2nd edition.

7. Isabel Correia, Francisco Saldanha-da-Gama, "Facility location under uncertainty", in Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama (editors), "Location Science", chapter 8, Springer, 2019, 2nd edition.

6. Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama, "Introduction to Location Science", in Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama (editors), "Location Science", chapter 1, Springer, 2019, 2nd edition.

5. Stefan Nickel, Francisco Saldanha-da-Gama, "Multi-period facility location", in Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama (editors), "Location Science", chapter 11, Springer, 2015.

4. Isabel Correia, Francisco Saldanha-da-Gama, "Facility location under uncertainty" ", in Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama (editors), "Location Science", chapter 8, Springer, 2015.

3. Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama, "Introduction to Location Science", in Gilbert Laporte, Stefan Nickel, Francisco Saldanha-da-Gama (editors), "Location Science", chapter 1, Springer, 2015.

2. Isabel Correia, Francisco Saldanha-da-Gama, "A modeling framework for project staffing and scheduling problems", In Christoph Schwindt and Jürgen Zimmermann (editors), "Handbook of Project Management and Scheduling", chapter 31, Springer, 2014.

1. Maria Teresa Melo, Stefan Nickel, Francisco Saldanha-da-Gama, "Network design decisions in supply chain planning" in Optimization of Logistics Systems—Models and Experiences, Symposium of the Collaborative Research Center 559 "Modelling of Large Logistics Networks", Peter Buchholz and Axel Kuhn (editors), pages 1–19, Verlag Praxiswissen Dortmund, 2008.

Articles in scholarly journals with peer review

58. Afaf Aloullal, Francisco Saldanha-da-Gama, Raca Todosijević, "Multi-period single-allocation hub location-routing: Models and heuristic solutions", European Journal of Operational Research 310, 53-70, 2023.

57. Laura Anton-Sanchez, Mercedes Landete, Francisco Saldanha-da-Gama, "The discrete p-center location problem with upgrading", Omega, 119, 102894, 2023

56. Víctor Blanco, Ricardo Gázquez, Francisco Saldanha-da-Gama, "Multi-type Maximal Covering Location Problems: Hybridizing discrete and continuous problems", European Journal of Operational Research 307, 1040–1054, 2023.

55. Antonio Diglio, Juanjo Peiró, Carmela Piccolo, Francisco Saldanha-da-Gama, "Approximation schemes for districting problems with probabilistic constraints", European Journal of Operational Research 307, 233–248, 2023.

54. Yuchen Li, Francisco Saldanha-da-Gama, Ming Liu, Zaoli Yang, "A risk-averse two-stage stochastic programming model for a joint multi-item capacitated line balancing and lot-sizing", European Journal of Operational Research, 304, 353–365, 2023.

53. Tianqi Liu, Francisco Saldanha-da-Gama, Shuming Wang, Yuchen Mao, "Robust Stochastic Facility Location: Sensitivity Analysis and Exact Solution", INFORMS Journal on Computing, 34, 2776–2803, 2022.

52. Francisco Saldanha-da-Gama, "Facility Location in Logistics and transportation: An enduring replationship", Transportation Research Part E: Logistics and Transportation Review, 166, 102903, 2022.

51. Yuchen Li, Zixiang Li, Francisco Saldanha-da-Gama, "New approaches for rebalancing an assembly line with disruptions", International Journal of Computer Integrated Manufacturing, 35, 1059–1076, 2022.

50. Javier Alcaraz, Laura Anton-Sanchez, Francisco Saldanha-da-Gama, "Bi-objective Resource-Constrained Project Scheduling Problem with Time-Dependent Resource Costs", Journal of Manufacturing Systems 73, 506–523, 2022.

49. Bowen Zhang, Xiang Li, Francisco Saldanha-da-Gama, "Free-floating bike-sharing systems: new repositioning rules, optimization models and solution algorithms", Information Sciences, 600, 239–262, 2022.

48. Chuan Wang, Hongjie Lan, Francisco Saldanha-da-Gama, Youhua Chen, "On optimizing a multi-mode last mile parcel delivery system with vans, truck and drone", Electronics 10, 2510, 2021.

47. Antonio Diglio, Juanjo Peiró, Carmela Piccolo, Francisco Saldanha-da-Gama, "Solutions for districting problems with chance-constrained balancing requirements", Omega 103, 102430, 2021.

46. Zehranaz Dönmez, Bahar Y.Kara, Özlem Karsu, Francisco Saldanha-da-Gama, "Humanitarian Facility Location under Uncertainty: Critical Review and Future Prospects", Omega 102, 102393, 2021.

45. Antonio Diglio, Stefan Nickel, Francisco Saldanha-da-Gama, "Towards a stochastic programming modeling framework for districting", Annals of Operations Research 292: 249–285, 2020.

44. Ángel Corberán, Mercedes Landete, Juanjo Peiró, Francisco Saldanha-da-Gama, "The facility location problem with capacity transfers", Transportation Research Part E: Logistics and Transportation Review 138:101943, 2020.

43. Juanjo Peiró, Ángel Corberán, Rafael Martí, Francisco Saldanha-da-Gama, "Heuristic Solutions for a Class of Stochastic Uncapacitated p-Hub Median Problems", Transportation Science 53, 1126–1149, 2019.

42. Ángel Corberán, Mercedes Landete, Juanjo Peiró, Francisco Saldanha-da-Gama, "Improved polyhedral descriptions and exact procedures for a broad class of uncapacitated p-hub median problems", Transportation Research Part B 123, 38–63, 2019.

41. Pu Li, Hongjie Lan, Francisco Saldanha-da-Gama, "Bi-Objective Capacitated Location-Routing Problem for Multiple Perishable Commodities", IEEE Access 7, 136729–136742, 2019.

40. Elena Fernández, Yolanda Hinojosa, Justo Puerto, Francisco Saldanha-da-Gama, "New algorithmic framework for conditional value at risk: application to stochastic fixed-charge transportation", European Journal of Operational Research 277, 215–226, 2019.

39. Bernardo F. Almeida, Isabel Correia, Francisco Saldanha-da-Gama, "Modeling frameworks for the multiskill resource-constrained project scheduling problem: a theoretical and empirical comparison", International Transactions in Operational Research 26, 946–967, 2019.

38. Omer Burak Kınay, Francisco Saldanha-da-Gama, Bahar Y. Kara, "On multicriteria chance-constrained capacitated single-source discrete facility location problems", Omega 83, 107–122, 2019.

37. Francisco Saldanha-da-Gama, "Comments on: Extensive facility location problems on networks: An updated review", TOP 26, 229–232, 2018.

36. Bernardo F. Almeida, Isabel Correia, Francisco Saldanha-da-Gama, "A biased random-key genetic algorithm for the project scheduling problem with flexible resources", TOP 26, 283–308, 2018.

35. Omer Burak Kınay, Bahar Y. Kara, Francisco Saldanha-da-Gama, Isabel Correia, "Modeling the shelter site location problem using chance constraints: A case study for Istanbul", European Journal of Operational Research 270, 132–145, 2018.

34. Alfredo Marín, Luisa I. Martínez-Merino, Antonio M. Rodríguez-Chía, Francisco Saldanha-da-Gama, "Multi-period Stochastic Covering Location Problems: modeling framework and solution approach", European Journal of Operational Research 268, 432–449, 2018.

33. Sibel A. Alumur, Stefan Nickel, Brita Rohrbeck, Francisco Saldanha-da-Gama, "Modeling congestion and service time in hub location problems", Applied Mathematical modelling 55, 13–32, 2018.

32. Isabel Correia, Stefan Nickel, Francisco Saldanha-da-Gama, "A stochastic multi-period capacitated multiple allocation hub location problem: formulation and inequalities", Omega 74, 122–134, 2018.

31. Fabian Dunke, Stefan Nickel, Iris. Heckmann, Francisco Saldanha-da-Gama, "Time Traps in Supply Chains: is Optimal Still Good Enough?", European Journal of Operational Research 264, 813–829, 2018.

30. Maria Albareda-Sambola, Elena Fernández, Francisco Saldanha-da-Gama, "Heuristic solutions to the Facility Location Problem with General Bernoulli Demands", INFORMS Journal on Computing 29, 737–753, 2017.

29. Jordi Castro, Stefano Nasini, Francisco Saldanha-da-Gama, "A cutting-plane approach for large-scale capacitated multi-period facility location using a specialized interior-point method", Mathematical Programming Series A 163, 411–444, 2017.

28. Sibel A. Alumur, Stefan Nickel, Francisco Saldanha-da-Gama, Yusuf Seçerdin, "Multi-period hub network design problems with modular capacities", Annals of Operations Research Annals of Operations Research 246, 289–312, 2016.

27. Bernardo F. Almeida, Isabel Correia, Francisco Saldanha-da-Gama, "Priority-Based Heuristics for the Multi-Skill Resource Constrained Project Scheduling Problem", Expert Systems with Applications 57, 91–103, 2016.

26. Stefan Nickel, Melanie Reuter-Oppermann, Francisco Saldanha-da-Gama, "Ambulance Location under Stochastic Demand: A Sampling Approach", Operations Research for Health Care 8, 24–32, 2016.

25. Isabel Correia, Francisco Saldanha-da-Gama, "A note on 'Branch-and-price approach for the multi-skill project scheduling problem' ", Optimization Letters 9, 1255–1258, 2015.

24. Yolanda Hinojosa, Justo Puerto, Francisco Saldanha-da-Gama, "A two-stage stochastic transportation problem with fixed handling costs and a priori selection of the distribution channels", TOP 22, 1123–1147, 2014.

23. Isabel Correia, Francisco Saldanha-da-Gama, "The impact of fixed and variable costs in a multi-skill project scheduling problem: an empirical study", Computers & Industrial Engineering 72, 230–238, 2014.

22. Isabel Correia, Stefan Nickel, Francisco Saldanha-da-Gama, "Multi-product capacitated single-allocation hub location problems: Formulations and inequalities", Networks and Spatial Economics 14, 1–25, 2014.

21. Maria Teresa Melo, Stefan Nickel, Francisco Saldanha-da-Gama, "An efficient heuristic approach for a multi-period logistics network redesign problem", TOP 22, 80–108, 2014.

20. Isabel Correia, Maria Teresa Melo, Francisco Saldanha-da-Gama, "Comparing classical performance measures for a multi-period, two-echelon supply chain network design problem with sizing decisions", Computers & Industrial Engineering 64, 366–380, 2013.

19. Joaquim A. S. Gromicho, Jelke J. van Hoorn, Francisco Saldanha-da-Gama, Gerrit Timmer, "Solving the job-shop scheduling problem optimally by dynamic programming", Computers & Operations Research, 39, 2968–2977, 2012.

18. Isabel Correia, Lídia Lampreia-Lourenço, Francisco Saldanha-da-Gama, "Project scheduling with flexible resources: formulation and inequalities", OR Spectrum, 34, 635–663, 2012.

17. Sibel A. Alumur, Stefan Nickel, Francisco Saldanha-da-Gama, V. Verter, "Multi-Period Reverse Logistics Network Design", European Journal of Operational Research, 220, 67–78, 2012.

16. Sibel A. Alumur, Stefan Nickel, Francisco Saldanha-da-Gama, "Hub location under uncertainty", Transportation Research Part B 46, 218–230, 2012.

15. Stefan Nickel, Francisco Saldanha-da-Gama, Hans-Peter Ziegler, "A multi-stage stochastic supply chain network design problem with financial decisions and risk management", Omega 40, 511–524, 2012.

14. Maria Teresa Melo, Stefan Nickel, Francisco Saldanha-da-Gama, "A tabu search heuristic for redesigning a multi-echelon supply chain network over a planning horizon", International Journal of Production Economics 136, 218–230, 2012.

13. Isabel Correia, Stefan Nickel, Francisco Saldanha-da-Gama, "Hub and spoke network design with single-assignment, capacity decisions and balancing requirements", Applied Mathematical Modelling 35, 4841–4851, 2011.

12. Maria Albareda-Sambola, Elena Fernández, Francisco Saldanha-da-Gama, "The facility location problem with Bernoulli demands", Omega 39, 335–345, 2011.

11. Isabel Correia, Stefan Nickel, Francisco Saldanha-da-Gama, "The capacitated single-allocation hub location problem revisited: A note on a classical formulation", European Journal of Operational research 207, 92–96, 2010.

10. Isabel Correia, Stefan Nickel, Francisco Saldanha-da-Gama, "Single-assignment hub location problems with multiple capacity levels", Transportation Research Part B: Methodological 44, 1047–1066, 2010.

9. Isabel Correia, Luís Gouveia, Francisco Saldanha-da-Gama, "Discretized formulations for capacitated location problems with modular distribution costs", European Journal of Operational Research 204, 237–244, 2010.

8. Maria da Conceição Fonseca, Alvaro García-Sánchez, Miguel Ortega-Mier, Francisco Saldanha-da-Gama, "A Stochastic Bi-objective Location Model for Strategic Reverse Logistics", TOP 18, 158–184, 2010.

7. Stefan Nickel, Francisco Saldanha-da-Gama, "Logistics Network Design", OR Spectrum 31, 461–463, 2009.

6. Maria Teresa Melo, Stitemizeefan Nickel, Francisco Saldanha-da-Gama, "Facility location and supply chain management—A review", European Journal of Operational Research 196, 401–412, 2009 (Invited review).

5. Isabel Correia, Luís Gouveia, Francisco Saldanha-da-Gama, "Solving the variable size bin packing problem with discretized formulations", Computers & Operations Research 35, 2103–2113, 2008.

4. Luís Gouveia, Francisco Saldanha-da-Gama, "On the capacitated concentrator location problem: a reformulation by discretization", Computers & Operations Research 33, 1242–1258, 2006.

3. Maria Teresa Melo, Stefan Nickel, Francisco Saldanha-da-Gama, "Dynamic multi-commodity capacitated facility location: a mathematical modelling framework for strategic supply chain planning", Computers & Operations Research 33, 181–208, 2006.

2. Francisco Saldanha-da-Gama, Maria Eugénia Captivo, "A heuristic approach for the discrete dynamic location problem", Location Science 6, 211–223, 1998.

1. Pasquale Avella, Stefan Benati, Lázaro Cánovas-Martinez, Kevin Dalby, Donatella Di Girolamo, Branka Dimitrijevic, Ioannis Giannikos, Nili Guttman, Tim Helge Hultberg, Jörg Fliege, Manuel Munõz-Márquez, Malick M. Ndiaye, Stefan Nickel, Peter Peeters, Dionisio Pérez-Brito, Silvia Policastro, Francisco Saldanha-da-Gama, Pietro Zidda, "Some personal views on the current state and the future of Locational Analysis", European Journal of Operational Research 104, 269–287, 1998.

Articles in refereed conference proceedings

6. Isabel Correia, Teresa Melo, Francisco Saldanha-da-Gama, "A two-echelon facility location problem with layout selection", Proceedings of the 14th International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems—MACMECTIS'12, pp 79–84, 2012.

5. Isabel Correia, Stefan Nickel, Francisco Saldanha-da-Gama, "Single-allocation hub location problems with capacity decisions and balancing requirements", Proceedings of the 12th International Conference on Mathematical and Computational Methods in Science and Engineering—MACMESE-06, pp 51–56, 2010.

4. Isabel Correia, Luís Gouveia, Francisco Saldanha-da-Gama, "Discretized reformulations for a capacitated network loading problem arising in a facility location context", INOC Proceedings 2007—International Network Optimization Conference, Pisa, Italy, 26–29 April, 2009.

3. Isabel Correia, Luís Gouveia, Francisco Saldanha-da-Gama, "On capacitated location problems with modular links and general distribution costs", INOC Proceedings 2007—International Network Optimization Conference, Spa, Belgium, 22–25 April, 2007.

2. Francisco Saldanha-da-Gama, Margarida M. da Silva, "A decomposition scheme for a multi-period phase-in/phase-out location problem", INOC Proceedings 2005—International Network Optimization Conference, Lisbon, Portugal, 20–23 March, 2005.

1. Maria Teresa Melo, Stefan Nickel, Francisco Saldanha-da-Gama, "Dynamic multi-commodity facility location: a mathematical modelling framework for strategic supply chain planning", Operations Research Proceedings 2003, D. Ahr, R. Fahrion, M. Oswald, G. Reinelt (editors), 95–102, Springer, Berlin, 2004.

Short courses and scientific presentations

- Ten short courses taught in different universities and countries: New University of Lisbon (Portugal), Trás-os-Montes e Alto Douro University (Portugal), Karlsruhe Institute of Technology (Germany), University of Seville (Spain), University of Cadiz (Spain), Beijing Jiaotong University (China), University of the Chinese Academy of Sciences (China).
- More than 20 seminar presentations in universities and scientific institutions from different countries including the University of Vienna (Austria), Free University Brussels (ULB, Belgium), Universidade Federal da Paraíba (Brazil), Beijing Jiaotong University (China), University of Chinese Academy of Sciences (Beijing, China), Xi'an Jiaotong University (China), Shanghai Jiaotong University (China), NEOMA Business School (Rouen, France), Karlsruhe Institute of Technology (Germany), Institute for Industrial Mathematics (ITWM, Kaiserslautern, Germany), University of Rome La Sapienza, (Italy), Nanzan University (Nagoya, Japan), New University of Lisbon (Portugal), University of Seville (Spain), Technical University of Catalonia (Barcelona, Spain), University of Murcia (Spain), University of Valencia (Spain) and Free University Amsterdam (VU, The Netherlands).
- More than 150 contributed presentations in Scientific Conferences.
- Plenary and keynote presentations:
  - "Time-dependent decisions in hub location and routing", LISS 2023: IEEE International Conference on Logistics, Informatics and Service Sciences, Hong Kong Polytechnic University, Hong-Kong, China, July 24, 2023.
  - "Facility Location under Uncertainty", EURO Summer Institute on Location Science, Edinburgh, Scotland, UK, 11–14 June, 2022.
  - "Districting Problems: Dealing with Uncertainty", French-German-Portuguese Conference on Optimization, Porto, Portugal, 3–6 May, 2022.
  - "Districting Problems: Dealing with Uncertainty", International Conference on Intelligent Transportation and Logistics with Big Data, Kunming, Yunnan, China, October 9–11, 2020, online presentation.
  - "Stochastic capacitated facility location: coping with uncertain uncertainty", CMAF-CIO Open Meeting (Centro de Matemática, Aplicações Fundamentais e Investigação Operacional), Lisbon, Portugal, September 9 and 10, 2020, conference held online.
  - "Stochastic Districting Problems", LISS 2020: IEEE International Conference on Logistics, Informatics and Service Sciences, Beijing Jiaotong University, Beijing, China, July 26 and 27, 2020, conference held online.
  - "Multi-period facility location problems in the context of logistics network design", 2019 International Conference on Logistics and Supply Chain, Beijing Wuzi University, Beijing, China, November 30 and December 1, 2019.

- "Logistics Network Design and Facility Location: the value of multi-period stochastic solutions", International Conference on Intelligent Transportation and Logistics with Big Data & 7th International Forum on Decision Science, Windsor, Ontario, Canada, July 26–29, 2019.
- "Meet the Editors", presentation and discussion panel. IO'2019, 20th Conference of the Portuguese OR Society, Tomar, Portugal, July 22–24, 2019.
- "Logistics Network Design and Facility Location: the value of multi-period stochastic solutions", IX IWOLOCA—Ninth International Workshop of Locational Analysis and Related Problems, Cadis, Spain, January 30 – February 1, 2019.
- "Logistics Network Design and Facility Location: the value of a multi-period stochastic solution", OR 2018 International Conference on Operations Research, GOR/ORBEL Joint Annual Conference (German and Belgium OR Societies), Brussels, Belgium, September 12–14, 2018.
- "Logistics Network Design and Facility Location: the value of a multi-period stochastic solution", 8th International Conference on Logistics, Informatics and Service Sciences / 5th International Conference on Industrial Economics Systems and Industrial Security Engineering, Toronto, Ontario, Canada, August 3–6, 2018.
- "Service location for unit demand customers: dealing with uncertainty", Twelfth Annual Workshop on Supply Chain and Logistics, Bilkent University, Ankara, Turkey, June 1, 2018.
- "Hub location problems for distribution systems design: some advances and prospects", China Society of Logistics Annual Meeting, Hefei, An Hui, China, November 24–26, 2016.
- "The stochastic uncapacitated r-allocation p-hub median problem: modeling framework and heuristic solutions", Workshop on Urban Operations Research 2016, Nanzan University, Nagoya, Japan, December 10–11, 2016.
- "Meet the Editors", presentation and discussion panel. Second Karlsruhe Service Summit Research Workshop, Karlsruhe Institute of Technology, Karlsruhe, Germany, February 25 and 26, 2016.

Member of scientific committees

- EWGLA XXII, 29th Meeting of the EURO Working Group on Locational Analysis, Sheffield, United Kingdom, June 19–21, 2024.
- CLAIO XXII—Latin-Iberian-American Conference on Operations Research, Guadalajara, Mexixo, October 28 – November 1, 2024.
- ISOLDE XVI/EWGLA XXVIII, 16th International Symposium on Locational Decisions / 28th Meeting of the EURO Working Group on Locational Analysis, Kaiserslautern and Baden-Baden, Germany, July, 2023.
- EWGLA XXVII, 27th Meeting of the EURO Working Group on Locational Analysis, Aveiro, Portugal, September, 14–16, 2022.
- ESI 2022, EURO Summer Institute on Location Analysis, Edinburgh, Scotland, UK, 11-24 June, 2022.
- Joint ALIO/EURO International Conference 2021 on Applied Combinatorial Optimization 2021, Viña del Mar, Chile, November 29 – December 1, 2021.
- ISOLDE XV/EWGLA XXVI, 15th International Symposium on Locational Decisions / 26th Meeting of the EURO Working Group on Locational Analysis, online conference organized by the University of Wuppertal, Germany, July, 5–9, 2021.
- ISCMI 2021—5th International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence, Victoria, Seychelles, 10 and 11 April, 2021.
- EWGLA XXV—25th Meeting of the EURO Working Group on Locational Analysis, Brussels, Belgium, 5–7 June, 2019.
- EWGLA XXIV—24th Meeting of the EURO Working Group on Locational Analysis, Edinburgh, Scotland, UK, 23–25 May, 2018.

- ISMSI 2017—International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence, Hong Kong, March 25–27, 2017.
- Optimization 2017, Lisbon, Portugal, 6–8 September, 2017.
- ISCMI 2016—3rd International Conference on Soft Computing & Machine Intelligence, Dubai, United Arab Emirates, November 23–25, 2016.
- EWGLA XXIII—23rd Meeting of the EURO Working Group on Locational Analysis, Malaga, Spain, 14–16 September, 2016.
- ISCBI 2016—4th International Symposium on Computational and Business Intelligence, 5–7 September 2016, Olten, Switzerland.
- EWGLA XXII—22nd Meeting of the EURO Working Group on Locational Analysis, Budapest, Hungary, 20–22 May, 2015.
- CLAIO XVII/CSMIO III—Latin-Iberian-American Conference on Operations Research / Conference of the Mexican Society of Operations Research, Monterrey, Mexico, 6–10 October, 2014.
- Optimization 2014, Guimarães, Portugal, 28–30 July, 2014.
- ISOLDE XIII/EWGLA XXI—Thirteenth International Symposium on Locational Decisions / 21st Meeting of the EURO Working Group on Locational Analysis, Naples and Capri, Italy, 16–20 June, 2014.
- EWGLA XX—Twentieth Meeting of the EURO Working Group on Locational Analysis, Ankara, Turkey, 17–19 April, 2013.
- EWGLA XIX—Nineteenth Meeting of the EURO Working Group on Locational Analysis, Nantes, France, 12–14 October, 2011.
- ORP3—OR Peripatetic Post-Graduate Program, Cadiz, Spain, September 2011.
- EWGLA XVIII—Eighteenth Meeting of the EURO Working Group on Locational Analysis, Naples, Italy, 28–30 April, 2010.
- EWGLA XVII—Seventeenth Meeting of the EURO Working Group on Locational Analysis, Elche, Spain, 17–19 September, 2008.
- EWGLA XVI—Sixteenth Meeting of the EURO Working Group on Locational Analysis, Estoril, Portugal, 9–11 February, 2007.
- EURO Winter Institute on Location and Logistics, Estoril, Portugal, 27 January–10 February, 2007.

Other professional activities

- Visiting researcher to the following institutions: Bejing Jiaotong University (China), University of Valencia (Spain), Karlsruhe Institute of Technology (Germany), Xi'an Jiaotong University (China), University of Seville (Spain), Technical University of Catalunya (Spain), University of Saarbrucken (Germany), Free University of Amsterdam (VU, The Netherlands), University of Applied Sciences, HTW (Saarbrucken, Germany), Institute for Industrial Mathematics—ITWM (Kaiserslautern, Germany).
- Member of more than 20 PhD committees in different universities and countries: University of Vienna (Austria), University of Montreal (Canada), Karlsruhe Institute of Technology (Germany), University of Aveiro (Portugal), University of Lisbon (Portugal), Technical University of Catalunya (Spain), Technical University of Madrid (Spain), University of Cadiz (Spain), University of Murcia (Spain), University of Seville (Spain), University of the Basque Country (Spain), Free University of Amsterdam (The Netherlands), Free University of Brussels (Belgium), and Ghent University (Belgium).
- Co-chair, Scientific Committee, EWGLA XXIX—29th Meeting of the EURO Working Group on Locational Analysis, Sheffield, United Kingdom, 19–21 June, 2024.

- Member of the Jury for the INFORMS SOLA Dissertation Award for the best PhD thesis in Location Analysis, 2023.
- Foreign reviewer, Canada Research Chairs Program, Tier 2, 2021.
- Honorary Chair, ISCBI 2017—5th International Symposium on Computational and Business Intelligence, Dubai, United Arab Emirates, 11–14 August 2017.
- Member of the Jury for the INFORMS SOLA Dissertation Award for the best PhD thesis in Location Analysis, 2016.
- Foreign reviewer, Natural Sciences and Engineering Research Council of Canada, category "Discovery Grants", 2016.
- External referee for the Prize Ramiro Melendreras 2009, sponsored by SEIO, The Spanish Statistics and Operations Research Society, 2009.
- Chairman of the Organizing Committee, EWGLA XVI—Sixteenth Meeting of the EURO Working Group on Locational Analysis, Estoril, Portugal, 9–11 February, 2007.
- Chairman of the Organizing Committee, EURO Winter Institute on Location and Logistics, Estoril, Portugal, 27 January–10 February, 2007.
- Member of the organizing committee, Optimization'2004, Lisbon, Portugal, 25–28 July, 2004.

October 15, 2023.