

María Dolores Romero Morales

(May 1, 2017)

Current position : Professor, Copenhagen Business School.

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Education

Degree : B.Sc. and M.Sc. in Mathematics, Universidad de Sevilla, 24/6/1994.

Awarded Best Student in Applied Mathematics.

Doctoral degree : PhD in Operations Research, Erasmus University Rotterdam, 12/10/2000.

Title of the PhD thesis : Optimization problems in Supply Chain Management.

Supervisors : Prof. dr. ir. Jo A.E.E. van Nunen and Prof. H. Edwin Romeijn.

Awarded Best Dissertation by Erasmus Research Institute of Management.

Professional Employment

- Professor in Operations Research, Copenhagen Business School, August 2014-present.
- Professor in Operations Research, Saïd Business School, and Fellow of St Cross College, University of Oxford, June 2012-July 2014.
- University Reader in Operations Research, Saïd Business School, and Fellow of St Cross College, University of Oxford, April 2006-May 2012.
- University Lecturer in Decision Science, Saïd Business School, and Fellow of St Cross College, University of Oxford, September 2003-March 2006.
- Assistant Professor in Operations Research, Department of Quantitative Economics, Faculty of Economics and Business Administration, Maastricht University, The Netherlands, August 2000-August 2003.
- Assistant Professor in Statistics and Operations Research, Faculty of Mathematics, Universidad de Sevilla, Spain, January 1998-September 1998.
- Research Assistant in Operations Research, Department of Decision and Information Sciences, Faculty of Business Administration, Erasmus University Rotterdam, The Netherlands, September 1996-July 2000.
- Assistant Professor in Quantitative Methods, School of Business Administration, Universidad de Cádiz, Spain, October 1995-September 1996.

Visiting Positions

- Visiting Scholar, Saïd Business School, University of Oxford, December 2014-December 2015.
- Visiting Scholar, Department of Industrial Engineering and Operations Research, University of California, Berkeley, USA, January-March 2014.
- Visiting Professor, Operations and Information Management Department, The Wharton School, University of Pennsylvania, USA, April-May 2009.
- Visiting Professor, Department of Industrial and Systems Engineering, University of Florida, USA, April-May 2001.
- Visiting Researcher, Department of Industrial and Systems Engineering, University of Florida, USA, April 2000.

Journal articles

- Visualizing data as objects by DC (difference of convex) optimization, E. Carrizosa, V. Guerrero Lozano, D. Romero Morales. Forthcoming in *Mathematical Programming, Series B*. doi 10.1007/s10107-017-1156-1.
- Visualizing proportions and dissimilarities as Space-Filling Maps: a Large Neighborhood Search approach, E. Carrizosa, V. Guerrero Lozano, D. Romero Morales. *Computers and Operations Research*, 78:369–380, 2017.
- Clustering categories in Support Vector Machines, E. Carrizosa, A. Nogales-Gómez, D. Romero Morales. *Omega*, 66:28–37, 2017.
- Strongly agree or strongly disagree?: Rating features in Support Vector Machines, E. Carrizosa, A. Nogales-Gómez, D. Romero Morales. *Information Sciences*, 329:256–273, 2016.
- An SDP approach for multiperiod mixed 0–1 linear programming models with stochastic dominance constraints for risk management, L.F. Escudero, J.F. Monge, D. Romero Morales. *Computers and Operations Research*, 58:32–40, 2015.
- Computational complexity of finding Pareto efficient outcomes for bi-objective lot-sizing models, H.E. Romeijn, D. Romero Morales, W. van den Heuvel, *Naval Research Logistics*, 61(5): 386–402, 2014.
- Heuristic approaches for support vector machines with the ramp loss, E. Carrizosa, A. Nogales-Gómez, D. Romero Morales, *Optimization Letters*, 8:1125–1135, 2014.
- A nested heuristic for parameter tuning in Support Vector Machines, E. Carrizosa, B. Martín Barragán, D. Romero Morales, *Computers and Operations Research*, 43: 328–334, 2014.
- Revenue deficiency under second-price auctions in a supply-chain setting, D. Romero Morales, R. Steinberg, *European Journal of Operational Research*, 233:131–144, 2014.
- Expected future value decomposition based bid price generation for large-scale network revenue management, L.F. Escudero, J.F. Monge, D. Romero Morales, J. Wang, *Transportation Science*, 47:181–197, 2013.
- Supervised classification and mathematical optimization, E. Carrizosa, D. Romero Morales, *Computers and Operations Research*, 40:150–165, 2013.
- Detecting relevant variables and interactions in supervised classification. E. Carrizosa, B. Martín Barragán, D. Romero Morales, *European Journal of Operational Research*, 213(1):260–269, 2011.
- Binarized Support Vector Machines. E. Carrizosa, B. Martín Barragán, D. Romero Morales, *INFORMS Journal on Computing*, 22(1):154–167, 2010.
- Forecasting cancellation rates for services booking revenue management using data mining. D. Romero Morales, J. Wang, *European Journal of Operational Research*, 202(2):554–562, 2010.
- Existence of equilibria in a decentralized two-level supply chain. D. Romero Morales, D. Vermeulen, *European Journal of Operational Research*, 197(2):642–658, 2009.
- Multi-group Support Vector Machines with measurement costs: a biobjective approach, E. Carrizosa, B. Martín Barragán, D. Romero Morales, *Discrete Applied Mathematics*, 156(6):950–966, 2008.
- On the selection of the globally optimal prototype subset for Nearest-Neighbor classification. E. Carrizosa, B. Martín Barragán, F. Plastria, D. Romero Morales, *INFORMS Journal on Computing*, 19(3):470–479, 2007.
- A heuristic approach to the multi-period single-sourcing problem with production and inventory capacities and perishability constraints, R.K. Ahuja, W. Huang, H.E. Romeijn, D. Romero Morales, *INFORMS Journal on Computing*, 19:14–26, 2007.
- Note on the applicability of the VCG mechanism to capacitated assignment problems and extensions. R.B. Lok, D. Romero Morales, D. Vermeulen, *Statistica Neerlandica*, 61(1): 156–171, 2007.

- A biobjective method for sample allocation in stratified sampling. E. Carrizosa, D. Romero Morales, *European Journal of Operational Research*, 177(2): 1074–1089, 2007.
- On solving the multi-period single-sourcing problem under uncertainty, A. Alonso-Ayuso, L.F. Escudero, C. Pizarro, H.E. Romeijn, D. Romero Morales, *Computational Management Science*, 3(1): 29–53, 2006.
- Integrated lot-sizing in serial supply chains with production capacities, S. van Hoesel, H.E. Romeijn, D. Romero Morales, A.P.M. Wagelmans, *Management Science*, 51(11): 1706–1719, 2005.
- Asymptotic analysis of a greedy heuristic for the multi-period single-sourcing problem: the acyclic case, H.E. Romeijn, D. Romero Morales, *Journal of Heuristics*, 10: 5–35, 2004.
- A branch and price algorithm for the multi-period single-sourcing problem, R. Freling, H.E. Romeijn, D. Romero Morales, A.P.M. Wagelmans, *Operations Research*, 51(6): 922–939, 2003.
- An asymptotically optimal greedy heuristic for the multi-period single-sourcing problem: the cyclic case, H.E. Romeijn, D. Romero Morales, *Naval Research Logistics*, 50(5): 412–437, 2003.
- Generating experimental data for the generalized assignment problem, H.E. Romeijn, D. Romero Morales, *Operations Research*, 49(6): 866–878, 2001.
- A probabilistic analysis of the multi-period single-sourcing problem, H.E. Romeijn, D. Romero Morales, *Discrete Applied Mathematics*, 112: 301–328, 2001.
- Combining minsum and minmax. A goal programming approach, E. Carrizosa, D. Romero-Morales, *Operations Research*, 49(1): 169–174, 2001.
- Finding the principal points of a random variable, E. Carrizosa, E. Conde, A. Castaño, D. Romero-Morales, *RAIRO-Operations Research*, 35: 315–328, 2001.
- A class of greedy algorithms for the generalized assignment problem, H.E. Romeijn, D. Romero Morales, *Discrete Applied Mathematics*, 103: 209–235, 2000.
- Attainment of optimal solution in a semiobnoxious location problem, E. Carrizosa, D. Romero-Morales, *Studies in Locational Analysis*, 12: 41–48, 1999.
- Semi-Obnoxious location models: A global optimization approach, D. Romero-Morales, E. Carrizosa, E. Conde, *European Journal of Operational Research*, 102(2): 296–301, 1997.

Book chapters

- The generalized assignment problem and extensions, D. Romero Morales, H.E. Romeijn. *Handbook of Combinatorial Optimization*, supplement volume B (D.Z. Du and P.M. Pardalos, eds.), Springer, 2005, 259–311.
- A greedy heuristic for a three-level multi-period single-sourcing problem, H.E. Romeijn, D. Romero Morales, *Quantitative Approaches to Distribution Logistics and Supply Chain Management*, Lecture Notes in Economics and Mathematical Systems 519 (A. Klose, M.G. Speranza and L.N. Wassenhove, eds.), Springer-Verlag, Berlin, 2002, 191–214.
- Logistics network design evaluation in a dynamic environment, D. Romero Morales, J.A.E.E. van Nunen, H.E. Romeijn, *New trends in distribution logistics*, Lecture Notes in Economics and Mathematical Systems 480 (M.G. Speranza and P. Stähly, eds.), Springer-Verlag, Berlin, 1999, 113–135.
- Location of a semiobnoxious facility. A biobjective approach, E. Carrizosa, E. Conde, D. Romero-Morales, *Advances in multiple objective and goal programming*, Lecture Notes in Economics and Mathematical Systems 455 (R. Caballero, F. Ruiz, and R.E. Steuer, eds.), Springer-Verlag, Berlin, 1997, 338–346.

Working papers

- On time-consistent stochastic dominance risk averse measure for Tactical Supply Chain Planning under uncertainty, L.F. Escudero, J.F. Monge, D. Romero Morales.

- Visualization tools for time-evolving clustering, E. Carrizosa, B. Martín Barragán, D. Romero Morales.
- On Mathematical Optimization for the visualization of proportions and adjacencies as rectangular maps, E. Carrizosa, V. Guerrero Lozano, D. Romero Morales.
- Visualization of complex dynamic datasets by means of Mathematical Optimization, E. Carrizosa, V. Guerrero Lozano, D. Romero Morales.
- Polynomial time algorithms for minimax regret robust uncapacitated lot sizing models, D. Li, D. Romero Morales.
- The robust uncapacitated lot sizing model with uncertainty range, D. Li, D. Romero Morales.
- A parallel discretization algorithm for cancellation rate forecasting in Revenue Management, D. Romero Morales, J. Wang.

Work in progress

- On Building Online Dynamic Visualization Maps for Linguistic Semantic Data, E. Carrizosa, V. Guerrero Lozano, D. Hardt, D. Romero Morales, J.M. Valverde Martínez.
- The *bw*-Robust Uncapacitated Lot Sizing Model, D. Li, D. Romero Morales.
- Efficient cycle generation for kidney exchange problems, D. Hochbaum, D. Romero Morales.

Selected presentations

- Mathematical Optimization in Information Visualization, Basque Center for Applied Mathematics, Bilbao, April 25, 2017.
- Visualizing data as objects by DC (difference of convex) optimization, IMA and OR Society Conference on Mathematics of Operational Research, Birmingham, April 20-21, 2017.
- On Mixed Integer Nonlinear Programming to Visualize Complex Data, COST Project TD1207 Final Conference "Mathematical Optimization for Efficient and Robust Energy Networks", Modena, March 29-31, 2017.
- On Difference of Convex Optimization to Visualize a Word Storm, INFORMS 2016, Nashville, November 13-16, 2016.
- A Multi-Objective approach to visualize proportions and a binary relation by rectangular maps, INFORMS 2015, Philadelphia, November 1-4, 2015.
- Increasing Sparsity in Support Vector Machines in the Presence of Categorical Data, 22nd International Symposium on Mathematical Programming, Pittsburgh, July 12-17, 2015.
- Mathematical Optimization and Interpretability in Support Vector Machines, ISAT The Cassandra Problem: Building Trust in Predictive Models Workshop, DARPA, Arlington, April 15-16, 2015.
- MINLP and the pursue of interpretability and visualization in Data Science, MINLP 2015, Sevilla, March 30-April 1, 2015.
- Clustering Categories in Support Vector Machines, INFORMS 2014, San Francisco, November 9-12, 2014.
- Dimensionality reduction of categorical data in Support Vector Machines, IFORS 2014, Barcelona, July 13-18, 2014.
- Strongly Agree or Strongly Disagree? Rating Features in Support Vector Machines, INFORMS National Meeting, Minneapolis, Minnesota, October 6-9, 2013.
- Polynomial time algorithms for Cardinality Constrained Robust Lot Sizing models, XXVI EURO-INFORMS Joint International Conference, Rome, July 1-4, 2013.
- A polynomial time algorithm for the minimax regret uncapacitated lot-sizing model, ECCO XXVI, Paris, May 30-June 1, 2013.

- Bi-objective economic lot-sizing problems, 3rd International Workshop on Lot Sizing, Rotterdam, August 27-29, 2012.
- A Multi-Objective Economic Lot-Sizing Problem with environmental considerations, 21st International Symposium on Mathematical Programming, Berlin, August 19-24, 2012.
- Finding Pareto optimal solutions for the multi-objective economic lot-sizing problem, 2nd International Workshop on Lot Sizing, Istanbul, August 24-26, 2011.
- Economic lot-sizing models with environmental awareness: A multi-objective programming approach, ECCO XXIV, Amsterdam, May 30-June 1, 2011.
- Multi-Objective Economic Lot-Sizing Models, VII ALIO/EURO Workshop on Applied Combinatorial Optimization, Porto, May 4-6, 2011.
- Expected future value decomposition based bid price generation for large-scale network revenue management, EURO XXIV, Lisbon, July 11-14, 2010.
- A polynomial time algorithm for a class of two-level capacitated requirements planning and pricing problems, Combinatorial Optimization 2010, Málaga, May 27-29, 2010.
- A stochastic dynamic programming approach to large-scale network revenue management, 20th International Symposium on Mathematical Programming, Chicago, August 23-28, 2009.
- Support vector machines for passenger name record-based cancellation forecasting in revenue management, INFORMS National Meeting, Washington, DC, October 12-15, 2008.
- Discretizing continuous variables for support vector machines by means of classification trees, Combinatorial Optimization 2008, Warwick, March 16-19, 2008.
- Existence of equilibria in a decentralized two-level economic lot-sizing model, 19th International Symposium on Mathematical Programming, Rio de Janeiro, July 30-August 4, 2006.
- Procurement over multiple periods, EURO XXI, Reykjavik, July 2-5, 2006.
- Combinatorial auctions with transformation in procurement, Combinatorial Optimization 2006, Porto, May 11-13, 2006.
- Combinatorial auctions for the procurement of a product over a planning horizon, ALIO/EURO Workshop on Applied Combinatorial Optimization, Paris, October 26-28, 2005.
- Polynomially solvable production and distribution lot-sizing models, Combinatorial Optimization 2004, Lancaster, March 28-31, 2004.
- A biobjective method for sample allocation in stratified sampling, 18th International Symposium on Mathematical Programming, Copenhagen, August 18-22, 2003.
- The stochastic multi-period single-sourcing problem, INFORMS National Meeting, San José, California, November 17-20, 2002.
- Two-level lot-sizing problems in supply chain planning, Mathematical Methods in Manufacturing and Logistics, Oberwolfach, December 16-22, 2001.
- New capacitated lot-sizing problems arising when coordinating transportation and inventory decisions in a supply chain, INFORMS International Hawaii, Maui, Hawaii, June 17-20, 2001.
- A class of greedy heuristics for minimizing the transportation and inventory costs in a logistics network, 17th International Symposium on Mathematical Programming, Atlanta, Georgia, August 7-11, 2000.
- The multi-resource generalized assignment problem with an application to the distribution of gasoline products, Third Alio-Euro Workshop: Applied Combinatorial Optimization, Erice, November 1-7, 1999.
- A column generation approach for the multi-period single-sourcing problem, INFORMS National Meeting, Seattle, Washington, October 25-28, 1998.
- A class of generalized greedy algorithms for the generalized assignment problem, 16th International Symposium on Mathematical Programming, Lausanne, August 24-29, 1997.

Awards and Grants

- Cost Sensitive Classification. A Mathematical Optimization Approach. BBVA Foundation, led by Prof. Carrizosa. July 2016-June 2018.
- EUopSTART grant. The Danish Agency for Science, Technology and Innovation. December 2015-July 2016.
- R & D project granted by Ministerio de Economía y Competitividad, Spain, on *Mathematical Optimization For Data Visualization And Decision Making*, led by Prof. Carrizosa and Dr. Blanquero Bravo, Universidad de Sevilla. January 2016-December 2019.
- Research and traveling grants from the US National Science Foundation, NWO (Netherlands Organisation for Scientific Research), METEOR (Maastricht Research School of Economics of Technology and Organizations), Ministerio de Ciencia e Innovación (Spain), the Astor Travel Fund at the University of Oxford, the John Fell Oxford University Press Research Fund, Otto Mønsted's Foundation, and the Public and Private Platform at CBS.
- METEOR Extramural Fellow. January 2004-December 2008.
- 2004 Operations Research Meritorious Service Award, for reviewing service to the journal Operations Research.
- ERIM (Erasmus Research Institute of Management) Best Dissertation Award. December 2002.
- Best Student in Applied Mathematics, Universidad de Sevilla. October 1994.

Engagement with companies

- Big Data: IBM, SAS.
 - Analytics: The real-world use of big data, M. Schroeder, R. Shockley, J. Smart, D. Romero Morales, P. Tufano, Research Report by the IBM Institute for Business Value in collaboration with Saïd Business School. October 2012.
 - Honorary SAS Fellow and member of SAS Academic Advisory Board, May 2013-April 2016.
- Analytics: Deloitte, SAS.
- Revenue Management: KLM, Radisson Edwardian Hotels.
- Supply Chain Management: Ortec.

PhD supervision

- V. Guerrero Lozano, *Mathematical Optimization for the Visualization of Complex Datasets*. Jointly supervised with Prof. Carrizosa. Expected June 2017.
- D. Li, *Robust Optimisation with Applications in Supply Chain Management*, March 2017.
- A. Nogales-Gómez, *Mixed Integer Nonlinear Optimization. Applications to Competitive Location and Supervised Learning*, February 2015. Jointly supervised with Prof. Carrizosa and Dr. Blanquero Bravo. First job at Huawei France R&D Center (France).
- J. Wang, *Estimation and Optimization in Revenue Management*, September 2009. First job at Deutsche Bank in Hong Kong (China).
- R.B. Lok, *Auction Mechanisms in Supply Chain Optimization*, June 2007. Jointly supervised with Prof. Van Hoesel. First job at Centraal Bureau voor de Statistiek, Heerlen (The Netherlands).
- B. Martín Barragán, *Mathematical Programming for Support Vector Machines*, September 2006. Jointly supervised with Prof. Carrizosa. First job: Assistant Professor, Departamento de Estadística, Universidad Carlos III de Madrid. Current job: Lecturer in Management Science, The University of Edinburgh Business School (United Kingdom).

Teaching experience

- Mathematical Optimization in Data Science. PhD. University of Bern.
- The Economics of Health Care Innovation: Analytics. M.Sc. Copenhagen Business School.
- Mathematical Optimization: Models, Methods and Applications. M.Sc. Copenhagen Business School.
- Dissertation supervision. MSc. Copenhagen Business School.
- Analytics and Big Data. MBA. Copenhagen Business School.
- Business Analytics and Decision Making. M.Sc. Copenhagen Business School.
- Data Science: Data Driven Decision Making. M.Sc and MBA. Copenhagen Business School.
- Analytics. MBA and EMBA. University of Oxford.
- Combinatorial Optimization and the Design and Operation of Supply Chains. DPhil. NATCOR course in Combinatorial Optimization.
- Statistical Research Methods. M.Sc. and DPhil in Management Studies. University of Oxford.
- Optimization and Decisions. Indiana Summer School at Oxford on Decision Making and Governance.
- Operational Hotel Management. MBA in Hotel & Tourism Management. Maastricht Hotel Management School.
- Operations Management. M.Sc. in Economics. Maastricht University.
- Logistics. M.Sc. in Econometrics. Maastricht University.
- Service Operations Management. M.Sc. in International Business Administration. Maastricht University.
- Service Operations Management. *Vodafone International Business Strategy Program*, Graduate School of International Management. Maastricht University.
- Linear Programming. M.Sc. in Econometrics. Maastricht University.
- Statistical Methods in Social and Labor Audit. M.Sc. in Audits. Universidad de Sevilla.
- Public Statistics. M.Sc. in Statistics. Universidad de Sevilla.
- Mathematics. M.Sc. in Business Administration. Universidad de Cádiz.

Professional duties

Editorial and reviewing duties

- FWO expert panel in Economics, Business Economics and Management (G&M2), January 2017-December 2019.
- Associate Editor of Journal of Global Optimization, September 2015-present.
- Associate Editor of Asia-Pacific Journal of Operational Research, December 2013-present.
- Associate Editor of Omega, Analytics, October 2013-present.
- Area Editor (Logistics, Distribution, Inventory and Transportation) of Asia-Pacific Journal of Operational Research, November 2010-October 2013.
- Associate Editor of Asia-Pacific Journal of Operational Research, January 2008-November 2010.
- Associate Editor of TOP, October 2006-present.
- Editorial Board member of International Journal of Inventory Research, July 2006-present.

- Editorial Review Board member of Production and Operations Management (Department of E-business and Operations), May 2006-present.
- Ad hoc reviewer for: 4OR, Annals of Operations Research, Applied Mathematical Modelling, Computers and Operations Research, Discrete Applied Mathematics, European Journal of Operational Research, Expert Systems With Applications, IEEE Transactions on Neural Networks, IIE Transactions, IMA Journal of Management Mathematics, INFORMS Journal on Computing, International Journal of Production Economics, International Journal of Systems Science, International Transactions in Operational Research, Journal of Artificial Intelligence Research, Journal of Computational and Applied Mathematics, Journal of Global Optimization, Journal of the Operational Research Society, Machine Learning, Management Science, Manufacturing & Service Operations Management, Naval Research Logistics, Omega, Operations Research, Optimization Letters, Optimization Methods & Software, Production and Operations Management, SIAM Journal of Optimization, TOP, Transportation Research E, Transportation Science.
- Evaluator for ANEP (www.anep.es), EPSRC (www.epsrc.ac.uk), ESRC (www.esrc.ac.uk), FWO (www.fwo.be), NWO (www.nwo.nl).

PhD committees

- L.R. Boscán F., *Essays on the Design of Contracts and Markets for Power System Flexibility*, Copenhagen (Denmark), October 2016.
- A.V. Olivares Nadal, *Enhancing Robustness and Sparsity via Mathematical Optimization*, Sevilla (Spain), September 2016.
- I. Fragkos, *Large-Scale Optimisation in Operations Management: Algorithms and Applications*, University College London, London (UK), December 2013.
- M.J. Retel Helmrich, *Green Lot-Sizing*, Rotterdam (The Netherlands), October 2013.
- S. Arora, *Time Series Forecasting with Applications in Macroeconomics and Energy*, Oxford (UK), March 2013.
- S.J. Miller, *Simple Plant Location Problem: Heuristics, Algorithms and Reductions*, Lancaster (UK), December 2012.
- A.K. Strauss, *Optimisation in Choice-Based Network Revenue Management*, Lancaster (UK), December 2009.
- P. Schütz, *Managing Uncertainty and Flexibility in Supply Chain Optimization*, Trondheim (Norway), June 2009.
- J. López Redondo, *Solving Competitive Location Problems via Memetic Algorithms. High Performance Computing Approaches*, Almería (Spain), September 2008. (External reviewer.)
- D. Martens, *Building Acceptable Classification Models for Financial Engineering Applications*, Leuven (Belgium), January 2008.
- J.Y. Yu, *Models and Software for Improving the Profitability of Pharmaceutical Research*, Oxford (UK), October 2007.
- C. Pizarro Romero, *New Algorithmic Approaches in Stochastic Integer Programming*, Madrid (Spain), June 2006.
- S. García Quiles, *Advances in Discrete Location*, Murcia (Spain), April 2006.
- P. Kostuch, *University Course Timetabling and Meta-Heuristics*, Oxford (UK), September 2005.
- A. van der Kraaij, *Pricing in Telecommunication Networks*, Maastricht (The Netherlands), November 2004.

Scientific committees and organization of scientific activities

- Organizer of two invited sessions on “Mathematical Optimization in Data Science” in IMA and OR Society Conference on Mathematics of Operational Research, Birmingham, April 20-21, 2017.

- Member of the Program Committee of “ICORES 2017 : XV International Conference on Operations Research and Enterprise Systems”, Porto (Portugal), February 23-25, 2017.
- Judge for the INFORMS 2016 Data Mining Best Paper Award, INFORMS 2016, Nashville, November 13-16, 2016.
- Member of the Management Committee, Cost Action: TD 1409 MI-NET, Mathematics for Industry. January 2016-to present.
- Member of the Scientific Committee of the Royal Spanish Mathematical Society. January 2016-to present.
- Member of the Program Committee of “Statistical analysis of intra-firm data: Opportunities and challenges for the private sector, academic research and the provision of higher education”, Frederiksberg (Denmark), May 24-25, 2016.
- Member of the Program Committee of CO 2016, Canterbury (UK), September 1-3, 2016.
- Member of the Program Committee of “EURO 2016”, Poznań (Poland), July 3-6, 2016.
- Member of the Program Committee of “ICORES 2016 : XIV International Conference on Operations Research and Enterprise Systems”, Tokyo (Japan), May 26-27, 2016.
- Member of the Program Committee of “Workshop on Theory and Applications of Operations Research for Sustainability”, International Federation of Operational Research Societies, Barcelona (Spain), November 2-3, 2015.
- Organizer of the invited session “Mathematical Optimization Models for Data Science” in INFORMS 2015, Philadelphia, November 1-4, 2015.
- Organizer of a stream of invited sessions in “Data Mining and Integer Programming” in ISMP 2015, Pittsburgh, July 12-17, 2015.
- Member of the International Program Committee of “4th International Conference on Operations Research and Enterprise Systems” (ICORES 2015), Dubai (UAE), January 30-31, 2015.
- Organizer of a stream of invited sessions in “Data Mining” in IFORS 2014, Barcelona, July 13-18, 2014.
- Member of the Program Committee of “International Conference on Applied Mathematical Optimization and Modelling” (APMOD 2014), University of Warwick, April 9-11, 2014.
- Member of the International Program Committee of “3rd International Conference on Operations Research and Enterprise Systems” (ICORES 2014), Eseo (Angers, Loire Valley, France), March 6-8, 2014.
- Member of the Advisory Board of the INFORMS Section on Data Mining, 2013.
- Member of the Program Committee of the joint ECCO XXVII / CO 2014, Munich, May 1-3, 2014.
- Chair of the stream “Supply Chain Management, Logistics and Inventory” in OR 2013, Rotterdam, September 3-6, 2013.
- Organizer of a stream of invited sessions in “Supply Chain Optimization” in EURO 2013, Rome, July 1-4, 2013.
- Member of the Executive Committee of the National Taught Course Centre in Operational Research NATCOR (www.natcor.ac.uk). September 2012-July 2014.
- Member of the International Program Committee of “2nd International Conference on Operations Research and Enterprise Systems” (ICORES 2013), Barcelona, February 16-18, 2013.
- Chair of the Organizing committee/Chair of the Program committee of “International Symposium on Combinatorial Optimization” (CO 2012), Oxford, September 17-19, 2012.
- Organizer of an invited session in “Integer Programming in Data Mining” in the 21st International Symposium on Mathematical Programming, Berlin, August 19-24, 2012.
- Organizer of a stream of invited sessions in “Inventory Management” in EURO 2012, Vilnius, July 8-11, 2012.

- Member of the International Program Committee of “1st International Conference on Operations Research and Enterprise Systems” (ICORES 2012), Vilamoura-Algarve, February 4-6, 2012.
- Organizer of a stream of invited sessions in “Inventory Management” in EURO 2010, Lisbon, July 11-14, 2010.
- Organizer of a session in “Optimization and Classification” in the International Workshop on Operational Research in the honour of Prof Escudero, Madrid, June 4-7, 2008.
- Organizer of a session in “Feature Selection in Data Mining” in EURO 2006, Reykjavik, July 2-5, 2006.
- Organizer of the workshop “Feature Selection in Data Mining”, Saïd Business School, University of Oxford, June 29, 2006.
- Organizer of the workshop “Coordination Schemes for Decentralized Supply Chain Planning”, Saïd Business School, University of Oxford, June 15, 2004.
- Organizer of the workshop “Optimization in Supply Chain Planning”, Maastricht, June 10-11, 2002. Together with Stan van Hoesel (UM), Yves Pochet (CORE), Laurence Wolsey (CORE).
- Organizer of sessions in international conferences: INFORMS International Hawaii, Maui, Hawaii, June 17-20, 2001, and EURO 2001, Rotterdam, July 9-11, 2001.

External examining and evaluation committees

- Member of a Professor Evaluation Committee at the Department of Economics and Business Economics, Aarhus BSS, Aarhus University. 2017.
- External examiner for MSc in Marketing and Business Analysis, The University of Edinburgh Business School, October 2014–September 2015.
- External examiner for the Operations Research programmes (BSc and MSc), University of Southampton, October 2013–September 2016.

Memberships

- DORS, Danish Operations Research Society.
- EWG LOT, EURO Working Group on Lot-Sizing.
- INFORMS, Institute for Operations Research and the Management Sciences.
- MOS, Mathematical Optimization Society.
- SEIO, Spanish Statistics and Operations Research Society.

Internal Service (at Copenhagen Business School)

- Member of the CBS-Wide Appointment Committee, January 2017–December 2019.
- Member of various appointment panels, tenure track committees, review panels, and prize committees.