



# Curriculum Vitae Carlo Filippi

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Scopus: <https://www.scopus.com/authid/detail.uri?authorId=7006884051>

Publons: <https://publons.com/researcher/532100/carlo-filippi>

Google Scholar: <http://scholar.google.it/citations?user=Wrwpl0AAAAJ&hl=it>

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## CURRENT POSITION

Associate Professor of Operations Research (MAT / 09)

National Scientific Qualification, Full Professor, Operations Research.

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## PROFESSIONAL EXPERIENCE

*01/09/2006 – to the current date: Associate Professor of Operations Research (MAT / 09)*

University of Brescia - Department of Economics and Management, Brescia (Italy)

**Teaching:** Currently Professor of Introduction to Logistics (6CFU, Laurea Master's Degree in Management), Supply Chain Management (6 CFU, Master's Degree in Management), Business Decision Analysis - AG (6 CFU, Bachelor's Degrees in Economics). Previously, professor and substitute teacher of various courses on logistics topics and decision support methods for master's degrees and on basic computer science topics and optimization for three-year degrees. Supervisor over 50 final reports for three-year and master's degrees in Economics, on topics related to logistics, optimization, information systems, electronic marketing.

**Research:** Production of articles in international scientific journals and presentations at national and international sector conferences on topics of selective routing, stochastic routing, multi-objective combinatorial optimization, scheduling with fixed execution times. Reviewer for various international journals in the field of Operations Research.

*01/09/1992–31/08/2006: Researcher in Operations Research (MAT / 09)*

University of Padua - Department of Pure and Applied Mathematics

**Teaching:** Lecturer in Mathematics Programming (6 CFU, Bachelor's Degree in Mathematics) and Discrete Mathematics (6 CFU, Bachelor's Degree in Computer Science), Operations Research (30 hours, Statistics and Computer Science Diploma for Business Management), Operations Research (50 hours, Diploma in Electronic Engineering), Optimization (40 hours, Degree in Computer Science, University of Venice). For PhD courses, teacher of teaching Introduction to Linear Programming (12 hours, PhD School in Mathematical Sciences). Assistance and exercises for the Mathematics Institutions courses for the degrees in Biological Sciences and Geological Sciences. Speaker of over 20 degree theses in

Mathematics and 1 thesis in Electronic Engineering; co-supervisor of over 20 degree theses in Management Engineering, Electronic Engineering and Statistical Sciences (Old Order).

**Research:** Production of articles in international scientific journals and presentations at national and international sector conferences on topics of multiparametric mathematical programming, high multiplicity scheduling, localization. Reviewer for international journals in Operations Research. Invited lecturer at the Institut für Automatik, Swiss Federal Institute of Technology (ETH) in Zurich (8-11 March 2000). Academic guest at the Institut für Automatik, Swiss Federal Institute of Technology (ETH) in Zurich (1 October - 5 November 2000).

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## EDUCATION AND TRAINING

*01/11/1989–31/08/1992:* PhD in Computational Mathematics and Mathematical Informatics  
University of Padua, Bologna, Udine and Trieste, Padua (Italy)  
Admitted to each of the three years of cycle V. Title not achieved due to lack of support from the rapporteur.

*02/01/1989–31/07/1989:* Postgraduate Diploma in Applied Mathematics and Programming  
University of Padua - Faculty of Engineering, Padua (Italy)

*01/11/1983–25/11/1988:* Degree in Statistical, Economic and Actuarial Sciences  
University of Padua - Faculty of Statistical Sciences, Padua (Italy)  
Vote: 110/110 with honors.

*01/10/1978–15/07/1983:* Diploma of mechanical expert  
"E. Fermi" Industrial Technical Institute, Bassano del Grappa (VI) (Italy)  
Vote: 60/60.

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## RESEARCH

Research topics:

- 1) routing problems, including selective, stochastic, dynamic routing;
- 2) location problems, including congestion and equity issues;
- 3) scheduling problems on parallel machines, including high-multiplicity, fixed processing times, times windows;
- 4) multi-objective and multi-parametric ottimizzazione, with applications to logistics, finance, and constrained optimal control.

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## PUBLICATIONS

**Peer-reviewed international journals:**

- G. Andreatta, C. Filippi, G. Romanin-Jacur. The Linear Balancing Flow Problem. *European Journal of Operational Research* 64 (1993) 68 - 82.
- C. Filippi, G. Romanin-Jacur. Optimal Allocation of Two Fixed Service Units Acting as M/G/1 Queues. *Transportation Science* 30/1 (1996) 60 - 74.
- C. Filippi. A Reverse Search Algorithm for the Neighborhood Problem. *Operations Research Letters* 25/1 (1999) 33 - 37.
- C. Filippi, G. Romanin-Jacur. The Multiparametric Demand Transportation Problem. *European Journal of Operational Research* 139/2 (2002) 206 - 219.

- A. Bemporad, C. Filippi. Suboptimal Explicit Receding Horizon Control via Approximate Multiparametric Quadratic Programming, *Journal of Optimization Theory and Applications* 117/1 (2003) 9 - 38.
  - C. Filippi. An Algorithm for Approximate Multi-Parametric Linear Programming. *Journal of Optimization Theory and Applications* 120/1 (2004) - 95.
  - A. Bemporad, C. Filippi, F. D. Torrisi. Inner and Outer Approximation of Polytopes using Boxes. *Computational Geometry: Theory and Applications* 27/2 (2004) 151 - 178.
  - C. Filippi. A Fresh View on the Tolerance Approach to Sensitivity Analysis in Linear Programming. *European Journal of Operational Research* 167/1 (2005) 1 - 19.
  - C. Filippi, A. Agnetis. An Asymptotically Exact Algorithm for the High Multiplicity Bin Packing Problem. *Mathematical Programming* 104/1 (2005) 21- 37.
  - A. Bemporad, C. Filippi. An Algorithm for Approximate Multiparametric Convex Programming. *Computational Optimization and Applications* 35/1 (2006) 87 - 108.
  - A. Del Pia, C. Filippi. A Variable Neighborhood Descent Algorithm for a Waste Collection Problem with Mobile Depots. *International Transactions in Operational Research* 13/2 (2006) 125 - 141.
  - D. Muñoz de la Peña, A. Bemporad, C. Filippi. Robust Explicit MPC Based on Approximate MultiParametric Convex Programming. *IEEE Transactions on Automatic Control* 51/8 (2006) 1399 - 1403.
  - C. Filippi. On the Bin Packing Problem with a Fixed Number of Object Weights. *European Journal of Operational Research* 181 (2007) 117 - 126.
  - C. Filippi, G. Romanin Jacur. Exact and approximate algorithms for high multiplicity parallel machine scheduling. *Journal of Scheduling* 12 (2009) 529 - 541.
  - C. Filippi. An approximate algorithm for a high-multiplicity parallel machine scheduling problem. *Operations Research Letters*, 38 (2010) 312 – 317.
  - E. Angelelli, C. Filippi: On the complexity of interval scheduling with a resource constraint. *Theoretical Computer Science*, 412 (2011) 3650 – 3657.
  - S. Coene, C. Filippi, F. C. R. Spieksma, E. Stevanato. Balancing profits and costs on trees. *Networks*, 61 (2013) 200-211.
  - C. Filippi, E. Stevanato. Approximation schemes for bi-objective combinatorial optimization and their application to the TSP with profits. *Computers & Operations Research*, 40 (2013) 2418-2428.
  - C. Filippi, E. Stevanato. A two-phase method for bi-objective combinatorial optimization and its application to the TSP with profits. *Algorithmic Operations Research*, 7 (2013) 125-139.
  - E. Angelelli, N. Bianchessi, C. Filippi: Optimal interval scheduling with a resource constraint. *Computers & Operations Research*, 51 (2014) 268 – 281.
  - C. Filippi, G. Guastaroba, M.G. Speranza: A Heuristic Framework for the Bi-Objective Enhanced Index Tracking Problem. *Omega*, 65 (2016) 122 – 137.
  - C. Filippi, R. Mansini, E. Stevanato: Mixed integer linear programming models for optimal crop selection. *Computers & Operations Research*, 81 (2017) 26 – 39.
  - E. Angelelli, C. Archetti, C. Filippi, M. Vindigni: The probabilistic orienteering problem. *Computers & Operations Research*, 81 (2017) 269 – 281.
  - C. Filippi, W. Ogryczak, M. G. Speranza: Bridging k-sum and CVaR optimization in MILP. *Computers & Operations Research*, 105 (2019) 156 – 166.
- Articoli in monografie:
- C. Filippi. Sensitivity analysis in linear programming. *Wiley Encyclopedia of Operations Research and Management Science*. ISBN: 978-0-470-40063-0. (2011)

**Peer-reviewed national journals:**

- G. Andreatta, C. Filippi, G. Romanin Jacur. On Balancing the Flow Out of a Network with Gains. *Ricerca Operativa* 88 (1998) 27 - 58.

**Peer-reviewed international conference proceedings:**

- C. Filippi, A. Miccini, G. Romanin Jacur. Discrete Simulation to Enhance Performances of a Complex Chemical Plant. ESM'2001, 15th European Simulation Multiconference, E. J. H. Kerckhoffs and M. Snorek (Eds.), SCS, Delft, The Netherlands, 2001, pp. 917 - 921.
- Bemporad, C. Filippi. Suboptimal Explicit MPC via Approximate Multiparametric Quadratic Programming. Proceedings of the 40th IEEE Conference on Decision and Control, Orlando, Florida USA, December 4-7, 2001, pp. 4851 - 4856.
- Bemporad, C. Filippi. Approximate Convex Multiparametric Programming. Proceedings of the 42th IEEE Conference on Decision and Control, Maui, Hawaii, December 9-12, 2003, pp. 3185 - 3190.
- D. Muñoz de la Peña, A. Bemporad, C. Filippi. Robust Explicit MPC Based on Approximate Multiparametric Convex Programming. Proceedings of the 43th IEEE Conference on Decision and Control, Atlantis, Paradise Island, Bahamas, December 14-17, 2004, pp. 2491 - 2496.

**National conference proceedings:**

- C. Filippi. Bilanciamento di flussi su reti bipartite incomplete. Atti delle Giornate di Lavoro AIRO'90, Sorrento, 3-4-5 ottobre 1990, pp. 821 - 836.
- C. Filippi, G. Romanin Jacur. Optimal Allocation of Two Service Units Acting as M/M/1 Queues on a Network. Atti delle Giornate di Lavoro AIRO '93, Capri, 29-30 settembre, 1 ottobre 1993, pp. 264 - 267.
- C. Filippi: From the Value Function of a Linear Program to a Multiparametric Sensitivity Analysis. Atti delle Giornate di Lavoro AIRO '96, Perugia, 16-20 settembre 1996, pp. 385 - 387.

**Works in preparation:**

- C. Filippi, G. Guastaroba, M.G. Speranza. Conditional Value-at-Risk beyond finance: A Survey (submitted).
- C. Filippi, G. Guastaroba, M.G. Speranza. On capacitated facility location with cost and fairness objectives (submitted).
- E. Angelelli, C. Archetti, C. Filippi, M. Vindigni. A Dynamic and Probabilistic Orienteering Problem.
- C. Filippi, F. Maggioni, M.G. Speranza. The Stochastic Shortest Path: a Survey.

**Monographs:**

- E. Stevanato, G. Zanghirati, C. Filippi. Biobjective combinatorial optimization and the TSP with profits – Methods and Algorithms, Lambert Academic Publishing, 236 pp., ISBN 978-3-659-22198-9.

**Textbooks:**

- C. Filippi. Lezioni di Analisi delle Decisioni. Librerie Progetto, Padova, 2014.
- C. Filippi. Lezioni di Analisi delle Decisioni (2<sup>a</sup> ed.). Librerie Progetto, Padova, 2019.

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## CONFERENCES

**Talks at international conferences:**

- EURO XIV, 14th European Conference on Operational Research, Jerusalem, July 3-6, 1995. Speaker of the talk: "Multiparametric Programming for the Linear Transportation Problem".
- IFORS 96, 14th Triennial Conference, Vancouver, British Columbia, Canada, July 8-12, 1996. Speaker of the talk: "The Multiparametric Demand Linear Transportation Problem".
- EURO XVI, 16th European Conference of Operations Research, Brussels, July 12-15, 1998. Speaker of the talk: "Optimal Allocation of Fixed Service Units Acting as M/G/1 Queues".
- EURO 2001, The European Operational Research Conference, Rotterdam, July 9-11, 2001. Speaker of the talk: "Optimal Parking of Transit Aircraft in an Airport".
- APMOD 2002 - Applied mathematical programming and Modelling, Villa Monastero, Varenna, Italy, June 17-19, 2002. Speaker of the talk: "An Algorithm for Approximate Multi-Parametric Linear Programming".

- IWDL 2006 - International Workshop on Distribution Logistics, Brescia, October 2-4, 2006. Speaker of the talk: "A Variable Neighborhood Descent Algorithm for a Waste Collection Problem with Mobile Depots".
- ECCO XXIII-CO2010 - Joint conference of ECCO and the British CO group, Malaga, Spain, May 26-29, 2010. Speaker of the talk: "On Interval Scheduling with a Resource Constraint".
- EURO 2012 - 25th European Conference on Operational Research, Vilnius, Lithuania, July 8-11, 2012. Speaker of the talk: "Optimal Interval Scheduling with a Resource Constraint".
- EURO/INFORMS MMXIII - 26th European Conference on Operational Research, Roma, July 1-4, 2013. Speaker of the talk: "A Resource Allocation Problem Arising in Agriculture: ILP and MILP models".
- VeRoLog 2013 - 2nd meeting of the EURO Working Group on Vehicle Routing and Logistics Optimization, Southampton, July 7-10, 2013. Speaker of the talk: "Two approximation methods for BOCO problems: application to the TSP with profits".
- IFORS 2014 : 20th Conference of the International Federation of Operational Research Societies, Barcelona, July 13-18, 2014. Speaker of the talk: "A Model for Optimal Crop Selection Based on Conditional Value-at-risk".
- EURO 2015 - 27th European Conference on Operational Research, Glasgow 12-15 July, 2015. Speaker of the talk: "Controlling Uncertainty and Variability in MILP Models".
- VeRoLog 2016: annual workshop of the EURO working group on Vehicle Routing and Logistics optimization, Nantes (France), June 6-8, 2016. Speaker of the talk: "The Probabilistic Orienteering Problem".
- VeRoLog 2017: Annual workshop of the EURO working group on Vehicle Routing and Logistics optimization, Amsterdam, July 10-12, 2017. Speaker of the talk: "Introducing Fairness in Facility Location Problems".
- ICCL 17: 8th International Conference on Computational Logistics, Southampton (UK), October 18-20, 2017. Speaker of the talk: "On Fair Facility Location Problems in a Supply Chain".
- EURO/ALIO International Conference 2018 on Applied Combinatorial Optimization, Bologna 25-27 June, 2018. Speaker of the talk: "On Fairness in Facility Location Optimization".
- EURO 2018 - 29th European Conference on Operational Research, Valencia 8-11 July, 2018. Speaker of the talk: "Cost and Fairness Optimization in Facility Location".
- ICCL 18: 8th International Conference on Computational Logistics, Vietri sul Mare (SA), October 13, 2018. Speaker of the talk: "On equity and efficiency in facility location problems".

**Talks at national conferences:**

- AIRO '90 - 2st Annual Conference of the Italian Operations Research Society, Sorrento, 3-4-5 ottobre 1990. Speaker of the talk: "Bilanciamento di flussi su reti bipartite incomplete".
- AIRO '93 - 24th Annual Conference of the Italian Operations Research Society, Capri, 29-30 settembre, 1 ottobre 1993. Speaker of the talk: "Optimal Allocation of Two Service Units Acting as M/M/1 Queues on a Network".
- AIRO '96 - 27th Annual Conference of the Italian Operations Research Society, Perugia, 16-20 settembre 1996. Speaker of the talk: "From the Value Function of a Linear Program to a Multiparametric Sensitivity Analysis".
- AIRO '97 - 28th Annual Conference of the Italian Operations Research Society, Saint Vincent, 16-19 settembre 1997. Speaker of the talk: "On optimal partitions and the geometry of multiparametric linear programming".
- AIRO '99 - 30th Annual Conference of the Italian Operations Research Society, Napoli, Castel dell'Ovo, 21-24 settembre 1999. Speaker of the talk: "Optimal Allocation of Customers to Autonomous Fixed Servers under Congestion".
- AIRO 2000 - 31st Annual Conference of the Italian Operations Research Society, Milano, Università di Milano-Bicocca, 18-21 settembre 2000. Speaker of the talk: "A Revised Tolerance Approach to Sensitivity Analysis in Linear Programming".

- AIRO 2001 - 32nd Annual Conference of the Italian Operations Research Society, Villasimius, Cagliari, 4-7 settembre 2001. Speaker of the talks: "An on Line Cloth Cutting Scheduling Problem: Exact Approach and Greedy Heuristic"; "Batch Parallel Production Scheduling: Models and Complexity".
- AIRO 2002 - 33rd Annual Conference of the Italian Operations Research Society, L'Aquila, 10-13 settembre 2002. Speaker of the talks: "Optimal Scheduling of figure collection in automatic cloth cutting"; "Tabu search heuristics for batch parallel production scheduling".
- AIRO 2003 - 34th Annual Conference of the Italian Operations Research Society, Venezia, 2-5 settembre 2003. Speaker of the talks: "Bin Packing with a Fixed Number of Different Weights"; "Preemptive scheduling on unrelated parallel machines with sequence setups and highmultiplicity: heuristic approach".
- AIRO 2004 - 35th Annual Conference of the Italian Operations Research Society, Lecce, 7-10 settembre 2004. Speaker of the talk: "IRUP and MIRUP in the bin packing with a fixed number of item types".
- AIRO 2005 - 36th Annual Conference of the Italian Operations Research Society, Camerino (MC), 6-9 settembre 2005. Speaker of the talk: "Relaxed preemption on parallel machine scheduling: models and complexity".
- AIRO 2007 - 38th Annual Conference of the Italian Operations Research Society, Genova, 5-8 settembre 2007. Speaker of the talk: "Approximate and exact algorithms for high-multiplicity parallel machines scheduling problems".
- AIRO 2008 - 39th Annual Conference of the Italian Operations Research Society, Ischia, 7-11 settembre 2008. Speaker of the talk: "The bi-objective travelling salesman with profits on trees".
- AIRO 2009 - 40th Annual Conference of the Italian Operations Research Society, Siena, 8-11 settembre 2009. Speaker of the talk: "The bi-objective travelling salesman with profits on special graphs".
- AIRO 2010 - 41st Annual Conference of the Italian Operations Research Society, Villa San Giovanni (RC), 7-10 settembre 2010. Speaker of the talk: "On interval scheduling with a resource constraint".
- AIRO 2014 - 44th Annual Conference of the Italian Operations Research Society, Como, 2-5 settembre 2014. Speaker of the talk: "A Model for Optimal Crop Selection Based on Conditional Value-at-risk".
- AIRO 2015 - 45th Annual Conference of the Italian Operations Research Society, Pisa, 7-10 September 2015. Speaker of the talk: "The Probabilistic Orienteering Problem".
- AIRO 2016 - 46th Annual Conference of the Italian Operations Research Society, Trieste, September 6 - 9, 2016. Speaker of the talk: "On a probabilistic selective routing problem".

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## PROJECTS

- PRIN 1997 - Title: Simulation and optimization of productive and service activities - Coordinator: Nicolo' Fernando - Responsible: Romanin-Jacur Giorgio - Role: participant in the research program (from 02-15-1998 to 06.14.2000).
- PRIN 2000 - Title: Optimization and simulation in complex manufacturing systems and airport systems - Coordinator: Agnetis Alessandro - Responsible: Romanin-Jacur Giorgio - Role: participant in the research program (from 20-12-2000 to 15-01-2003).
- PRIN 2005 - Title: Packing, Covering and Partitioning Problems, Theory and Applications - Coordinator: Toth Paolo - Responsible: Conforti Michelangelo - Role: participant in the research program (from 01/30/2006 to 02/28/2008).
- Head of the fund for the visit of Prof. F. C. R. Spieksma (Katholieke Universiteit Leuven, Belgium) in the field of Project new talents - Visiting professor A.A. 2007/2008, funded by the Cariplo Foundation (from 25-02-2008 to 02/22/2008).
- Head of the fund for the visit of Prof. JJ Salazar Gonzalez (University of the Lagoon, Tenerife, Spain) as part of the University Fund for international activities year 2008 (from 26-05-2008 to 29-05-2008 ).
- PRIN 2007 - Title: New developments in vehicle routing problems - Coordinator: Speranza Maria Grazia - Responsible: Speranza Maria Grazia - Role: participant in the research program (from 09/22/2008 to 26/04- 2011).

- Head of the fund for the visit of Prof. JJ Salazar Gonzalez (University of the Lagoon, Tenerife, Spain) as part of the University Fund for international activities year 2009 (from 08-03-2010 to 11-03-2010 ).
- PRIN 2009 - Title: Advanced models and algorithms for vehicle routing problems - Coordinator: Speranza Maria Grazia - Responsible: Speranza Maria Grazia - Role: participant in the research program (from 10/17/2011 to 10/17/2013).
- SMASH - SMArt platform to enabling high performance processes in faSHion's supply chains financed by the Lombardy Region - Responsible: Speranza Maria Grazia - Role: co-responsible (from 01-09-2018 to 30-09-2019).

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## PROFESSIONAL SKILLS

### **Organizational activity:**

- Member of the Organizing Committee of "EURO PhD School on Routing and Logistics" - University of Brescia, June 24th - July 3rd, 2015.
- Member of the Organizing Committee of the AIRO 2011 conference - Operational Research in Transportation and Logistics, Sept. 6–9, 2011, Brescia. Website manager (airo2011.eco.unibs.it), communications and registration desk.

### **Responsibility for studies and scientific research:**

- Scientific Referent and research fellow for a 12 month research grant funded by the University of Brescia. Title of the research: "Problems of traveling salesman with profits: bi-objective approaches and extensions" (from 01-09-2010 to 31-08-2011).
- Scientific Referent and research fellow for a 12-month research grant co-financed by the University of Brescia. Title of the research: "Problems of traveling salesman with profits: bi-objective approaches and extensions" (Renewal of the previous year's grant, from 01/10/2011 to 30-09-2012).

### **Institutional activity:**

- Elected member of the Governing Council of the Italian Association for Operations Research (AIRO), 2019 - 2021.
- Effective member of the Selection Committee in the public competition for admission to the Ph.D. Models and Methods for Economics and Management (AEM), A.A. 2017/2018.
- Member of the Group Annual Report of the Master of Science in Management of the Department of Economics and Management, 2014 - present.
- Elected member of the Governing Council of the Italian Association for Operations Research (AIRO), 2012 - 2015.
- Tutor for the curricula in "Production and logistics" and "Green Economy and Sustainability" of the Master's Degree in Management, 2012 - present.
- Member of the Stage Commission of the Department of Economics and Management, University of Brescia, A.A. 2006/07 - present.
- Secretary of the Coordinating Council for Educational Economics and Management of Corporate Information - Company, Market and Information, Faculty of Economics, University of Brescia, A.A. 2010/11.
- Head of the supplementary course Training oriented to the use of IT tools and information systems integrated at the Department of Quantitative Methods of the University of Brescia, A.A. 2008/2009.
- Course Manager Training oriented to the use of IT tools and integrated information systems (internal stage of the Department of Quantitative Methods of the University of Brescia), Action n. 414834 - 2 Edition - Framework project for integrated advanced training for the University of Brescia - Project n. 411498 Objective 3, Measure C.3, A.A. 2007/2008.
- Secretary of the Aggregate Degree Program Board of Economics and Information and Communication Management - Theory and Methods for Information Management, Faculty of Economics, University of Brescia, A.A. 2007/08 - 2009/2010.

- Member of the Didactic Commission, Degree Course in Mathematics, Faculty of Sciences MM FF NN, University of Padua, A.A. 2003/04 - 2005/06.
- Member of the Board of the Department of Pure and Applied Mathematics, University of Padua, A.A. 2000/01 - 2003/04.
- Responsible for the Department of Pure and Applied Mathematics, University of Padua, on the "prohibition of smoking on the premises of the facility", A.A. 2002/2003 - 2005/06.

#### **Doctorate:**

- Member of the board of the Doctoral School in Developmental Medicine and Programming Sciences, specializing in Programming Sciences, University of Padua, A.A. 2005/2006 2010/2011.
- Member of the board of the Doctoral School in Mathematics and Computer Science, University of Ferrara, A.A. 2011/2012 - 2016/2017.
- Member of the board of the PhD Program in Models and Methods for Economics and Management (Analytics for Economics and Management - AEM), University of Brescia, A.A. 2017/2018 (Cycle XXXIII).

#### **Selection boards:**

- Secretary in the comparative assessment for the coverage of n. 1 post of University Researcher for SSD A04B OPERATIONAL RESEARCH at the University of Modena and Reggio Emilia, Modena, banned with D.R. 223 of 6.7.2000 and published in the ordinary supplement to the G.U. n. 54 - IV special series - dated 11.7.2000.
- Secretary in the comparative assessment for the coverage of n. 1 post of University Researcher for SSD MAT / 09 OPERATIONAL RESEARCH at the Faculty of Economics of the University of Brescia, announced by D.R. 1085 dated 2.7.2003 and published in the G.U. n. 54 of 11.7.2003.
- Secretary in the comparative assessment for the coverage of n. 1 post of University Researcher for SSD MAT / 09 OPERATIONAL RESEARCH at the Faculty of Economics of the University "Ca' Foscari" of Venice, banned with D.R. 638 dated 20.7.2006 and published in the ordinary supplement to the G.U. n. 58 - IV special series - dated 1.8.2006 (secretary).
- Committee chair in the public competition for the assignment of n. 1 research grant of 12 months for collaboration in research activities at the University of Brescia, appointed with D.R. Reg. XXVIII n. 980 of 25.06.2010.
- Committee chair in the public competition, for qualifications and interview, for the assignment of n. 1 research grant of 12 months for collaboration in research activities at the University of Brescia, appointed with a provision by the Director of the General Affairs Department, June 2011.
- Member of the Selection Committee for the admission competition for the Doctorate in Models and Methods for Economics and Management, University of Brescia, A.A. 2017/2018.
- Secretary of the commission in the public competition, for qualifications and interview, for the assignment of n. 1 research grant of 12 months for collaboration in research activities at the University of Brescia, on Models and innovative processes for the fashion logistics chain within the project "SMASH: SMArt platform to enabling high performance processes in faSHion's supply chains" funded by the Lombardy Region, February 2018.
- Secretary of the commission in the public competition, for qualifications and interview, for the assignment of n. 1 research grant of 12 months for collaboration in research activities at the University of Brescia, on innovative methods for the analysis and integration of the supply chain within the project "SMASH: SMArt platform to enabling high performance processes in faSHion's supply chains" funded by the Lombardy Region, March 2018.

#### **Technical collaborations:**

- CIBA SpA - Pontecchio Marconi (BO). Scientific collaboration on the theme: "Analysis of a complex chemical plant with batch type reactions: construction and validation of a discrete event simulation model" (from 01-02-2000 to 31-10-2000).



- JobJoint s.r.l. - Fara Vicentino (VI). Scientific collaboration on the theme: "Scheduling of identical parallel machines with time slots for fabric cutting: integer mixed optimization models and heuristic algorithms" (from 01-06-2000 to 31-03-2001).
- JobJoint s.r.l. - Fara Vicentino (VI). Scientific collaboration on the theme: "Scheduling of identical parallel machines with time windows for the removal of semi-finished products: integer mixed optimization models and heuristic algorithms" (from 01-09-2001 to 31-05-2002).
- Coges S.p.A. - Schio (VI). Scientific collaboration on the theme: "Algorithms for maximizing the autonomy in the provision of the rest in automatic distribution machines and / or coin acceptors" (from 01.11.2006 to 31.05.2007).
- Salvagnini SpA - Sarego (VI). Scientific collaboration on the topic: "Rules for the excellent preparation of the head of a multifunction press" (from 01-12-2013 to 30-06-2014).
- Salvagnini SpA - Sarego (VI). Scientific collaboration on the topic: "Optimal sequencing of processing in a semiautomatic production cell" (from 01-09-2014 to 31-01-2015).
- Salvagnini SpA - Sarego (VI). Scientific collaboration on the theme: "Evaluation of the efficiency of an innovative architecture for a double-head electric press" (from 01-03-2015 to 31-03-2016).
- Fiorital S.p.A. - Venice. Scientific collaboration on the theme: "Automatic and self-adaptive analysis and programming of the operations of the supply chain, processing, packaging, shipping of the fish product" (from 01-05-2017 to today).

**Educational collaborations:**

- Master in Integrated Logistics - CIES - University of Calabria. "Simulation Laboratory" module: applications of discrete event simulation, use of the Micro Saint package (September 2005, 16 hours).
- Master in Business Analysis - Faculty of Statistical Sciences - University of Padua. Course of "Mathematics": elements of linear algebra and optimization; introduction to optimization with Excel (March 2002, 16 hours of lessons; January 2003, November 2003 and November 2004, 8 hours).
- CUOA - Companies ULSS 17 and ULSS 19 - Course "Quantitative models for the planning and management of departments and services". Micro Saint simulation models and Excel optimization models (September - November 2002, 24 hours).
- Master Logistical Engineering Management - CIES - University of Calabria. High Professional Training Project funded by the Calabria Region. "Health systems logistics" module: applications of PLMI and discrete event simulation, use of GAMS and Micro Saint packages (February 2001, 22 hours).

**Membership in groups / associations:**

- Member of the Italian Association for Operations Research (AIRO).

*Last update: 16 April 2019.*