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## SUMMARY

### PERSONAL DATA

Birth date: January 10, 1964  
Citizenship: Portugal

### EDUCATION

- 08/1993 - Ph.D. in Operations Research, Cornell University, USA.
- 07/1987 - *Licenciatura* in Statistics and Operations Research, University of Lisbon, Portugal.

### EXPERIENCE AND JOB HISTORY

- 02/2005 to present - Associate Professor (*Professora Agregada*), Department of Economics and Business, Universitat Pompeu Fabra, Spain.

### RESEARCH

- More than 40 publications on refereed journals, proceedings or books.
- Number of publications indexed to the Web of Knowledge: 10.
- The most relevant publications:
  - **Lourenço H.R.**, Martin O. and Stützle T. (2010), Iterated Local Search: Framework and Applications. In Handbook of Metaheuristics, 2nd. Edition. Vol.146. M. Gendreau and J.Y. Potvin (eds.), Kluwer Academic Publishers, International Series in Operations Research & Management Science, pp. 363-397.
  - **Lourenço H.R.**, Paixão J.P. and Portugal R. (2009), Driver Scheduling Problem Modelling. Public Transport: Planning and Operations. 1(2):103-120.
  - Giménez C. and **Lourenço H.R.** (2008), e-SCM: Internet's impact on Supply Chain Processes. International Journal of Logistics Management 19(3): 309-343.
  - Fernandes, S. and **Lourenço H.R.** (2008). Optimised Search Heuristic Combining Valid Inequalities and Tabu Search. In *Hybrid Metaheuristics*, M.J. Blesa, C. Blum, C. Cotta, A.J. Fernández, J.E. Gallardo, A. Roli, M.Sampels (Eds.), Lecture Notes in Computer Science 5296: 87-101.
  - Pérez-Vázquez M.E., Gento-Municio A.G. and **Lourenço H.R.** (2007), Solving a Concrete Sleepers Production Scheduling by Genetic Algorithms. European Journal of Operational Research 179(3): 605-620.

- **Lourenço H.R.** (2005), Logistics Management: an opportunity for Metaheuristics. In *Metaheuristics Optimization via Memory and Evolution*, C. Rego and B. Alidaee (eds.), Kluwer Academic Publishers, pp. 329-356.
- **Lourenço H.R.**, Paixão J.P. and Portugal R. (2001), Multiobjective metaheuristics for the bus-driver scheduling problem. *Transportation Science* 35(3): 331-343.
- **Lourenço H.R.** (1995), Job-Shop Scheduling: computational study of local search and large-step optimization methods. *European Journal of Operational Research* 83(2): 347-364.
- Continuous participation in Competitive Research projects. The most recent one:
  - 2010 - 2013 - “Quantitative decision methods for logistics and operations management” (Métodos cuantitativos de decisión en entornos logísticos y productivos). Research Project: ECO2009-11307, Ministerio de Ciencia e Innovación, Spain. Research director: Daniel Serra. Funding 54,000 €. Team: 6 Researchers UPF.
- Presentation in several international conferences.
- The most recent ones:
  - “Multi-Start Biased Randomization Heuristics for Solving Non-Smooth Routing Problems” in *Optimization (Optimization)*, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal, July 24-27, 2011.
  - “An Iterated Local Search to solve a Multiobjective Integrated Distribution Problem” in **EURO XXIV (EURO 2010)**, Lisbon, Portugal, July 11-14, 2010.
  - “A GRASP heuristic for the Total Weighted Tardiness Job-Shop Scheduling Problem” in **MIC 2009 - VIII Metaheuristic International Conference (MIC 2009)**, Hamburg, Germany, July 13-16, 2009. ([Program Committee](#))
  - “GRASP and Branch and Bound - A Simple Hybrid Metaheuristic for the Job-Shop Scheduling Problem” in **The 7<sup>th</sup> European Conference on Evolutionary Computation in Combinatorial Optimization (EvoCOP2007)**, Valencia, Spain, 11-13 April, 2007.
- Member of the Program Committee of several international conferences. The last ones:
  - 07/2011 - Member of the Program Committee of **9<sup>th</sup> Metaheuristics International Conference**, July 25-28, 2011, Udine, Italy. ([MIC 2011](#)) ([pdf file](#))
  - 07/2011 - Member of the Program Committee of **Optimization 2011**, July 24-27, 2011, Costa da Caparica, Lisboa, Portugal. ([Optimization 2011](#)) ([pdf file](#))
  - 07/2010 - Member of the Program Committee of the **Genetic and Evolutionary Computation Conference 2010 (GECCO)**, July 7-11, Portland, Oregon, USA.

## TEACHING

- Teaching experience for more than 20 years.
- Teaching the following courses: Quantitative Methods for Business, Operations Research, Operations Management, Logistics and Supply Chain Management.
- Actually teaching in the following programs
  - Bachelors's Degree, Faculty of Economics and Business Sciences, UPF
  - Master of Management, UPF
  - Master of Retailing, ESCI
  - Master of International Business, MBA part time, IDEC, UPF
- Award to the best Teaching Plan for 2008-2009.
- Four years being in the 10% top rating on overall quality of instructor for the undergraduate degree on Business Administration.

## SERVICE

- Six Ph.D. students with successful completed thesis.
- Vice-Dean (vice-decana) of Economics and Institutional Relations of the School of Economics and Business, Universitat Pompeu Fabra, Spain (five years).
- Peer reviewer for several international journal, including *European Journal of Operational Research*, *Management Science*, *Transportation Science*, etc.
- Evaluator for several University Quality Agencies in Spain and Portugal.

## 1. EDUCATION AND JOB HISTORY

### EDUCATION

- 08/1993 - Ph.D. in Operations Research, Cornell University, USA.  
Thesis Advisor: David Shmoys.  
Title homologations:  
*Titulo homologado*, Universitat Pompeu Fabra, España (08.05.2006). ([pdf file](#))  
*Titulo reconocido*, Ministerio de Educación, Cultura y Deporte, España (21.02.2003).  
*Titulo homologado*, University of Lisbon, Ministério de Educação, Portugal (22.02.1994).
- 01/1993 - Master of Science in Operations Research, Cornell University, USA.
- 09/1991 - Master of Science in Statistics and Operations Research, University of Lisbon, Portugal.
- 07/1987 - *Licenciatura* in Statistics and Operations Research, University of Lisbon, Portugal.

### EXPERIENCE AND JOB HISTORY

- 02/2005 to present - Associate Professor (*Professora Agregada*), Department of Economics and Business, Universitat Pompeu Fabra, Spain. (7 trienios)
- 01/1997 to 01/2005 - Assistant Professor (*Professor Visitant*), Department of Economics and Business, Universitat Pompeu Fabra, Spain.  
In February 2002, I was evaluated by an internal committee at the Department of Economics and Business, Universitat Pompeu Fabra, and I was given a **tenured position**.
- 09/1996 to 04/1997 - Account Manager for Industrial Projects and Customers, AIS (Aplicaciones de Inteligencia Artificial), Spain (on leave from University of Lisbon).
- 01/1994 to 08/1997 - Assistant Professor, Department of Statistics and Operations Research, *Faculdade de Ciências*, University of Lisbon, Portugal.
- 10/1991 to 01/1994 - Teaching Assistant, Department of Statistics and Operations Research, *Faculdade de Ciências*, University of Lisbon, Portugal.
- 08/1989 to 12/1990 - Teaching Assistant, School of Operations Research and Industrial Engineering, Cornell University, USA
- 01/1988 to 09/1991 - Assistant, Department of Statistics and Operations Research, *Faculdade de Ciências*, University of Lisbon, Portugal

### Scientific and Teaching Merits

- 01/2006 - *Mèrits de Docència* (Four Merits in Teaching) (04/01/1988 to 03/01/1993), (04/01/1993 to 11/09/1998), (12/09/1998 to 11/09/2003) and (12/09/2003 to 11/09/2008).  
Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.
- 12/2006 - *Mèrits de Recerca* (Two Merits in Research) (01/01/1995 to 31/12/2000) and (01/01/2001 to 31/12/2006)  
Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.
- 10/2005 - *Certificació de l'activitat docent*  
Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.
- 05/2004 - *Acreditació de Recerca* (Accreditation in Research)  
Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.

## 2. RESEARCH

### RESEARCH INTERESTS

Supply Chain Management, Logistics, Production and Operations Management, Operations Research, Scheduling, Combinatorial Optimization, Metaheuristics and Heuristic Search Optimization.

UNESCO codes: 531107, 531109.

### PUBLICATIONS

#### Refereed Journal

1. Juan A.A., **Lourenço H.R.**, Mateo M., Castellà Q. and Barrios B.B., ILS-ESP: An Efficient, Simple, and Parameter-Free Algorithm for Solving the Permutation Flow-Shop Problem, Applied Soft Computing (*submitted*).
2. Juan, A. A., Faulin, J., Ferrer, A., **Lourenço H.R.**, and Barros, B. (2011), MIRHA: Multi-start biased randomization of heuristics with adaptive local search for solving non-smooth routing problem. TOP (*accepted 27 Nov 2011*).  
ISSN: 1134-5764 (print version) ISSN: 1863-8279 (electronic version)
3. **Lourenço H.R.**, Paixão J.P. and Portugal R. (2009), Driver Scheduling Problem Modelling. Public Transport: Planning and Operations. 1(2):103-120.  
DOI: 10.1007/s12469-008-0007-0. ISSN: 1613-7159 – [link \(pdf file\)](#)
4. Giménez C. and **Lourenço H.R.** (2008), e-SCM: Internet's impact on Supply Chain Processes. International Journal of Logistics Management 19(3): 309-343.  
ISSN 0957-4093 – [link \(pdf file\)](#)
5. Fernandes, S. and **Lourenço H.R.** (2008). Optimised Search Heuristic Combining Valid Inequalities and Tabu Search. In *Hybrid Metaheuristics*, M.J. Blesa, C. Blum, C. Cotta, A.J. Fernández, J.E. Gallardo, A. Roli, M. Sampels (Eds.), Lecture Notes in Computer Science 5296: 87-101.  
ISSN: 0302-9743 – [link \(pdf file\)](#) [ISI WK link\\*](#)
6. Fernandes, S. and **Lourenço H.R.** (2007). A GRASP and branch-and-bound metaheuristic for the job-shop scheduling. *Evolutionary Computation in Combinatorial Optimization*, C. Cotta and J. Van Hemert (Eds.), Lecture Notes in Computer Science 4446: 60-71.  
ISSN: 0302-9743 – [link \(pdf file\)](#) [ISI WK link\\*](#)
7. Pérez-Vázquez M.E., Gento-Municio A.G. and **Lourenço H.R.** (2007), Solving a Concrete Sleepers Production Scheduling by Genetic Algorithms. European Journal of Operational Research 179(3): 605-620.  
ISSN 0377-2217 – [link \(pdf file\)](#) [ISI WK link\\*](#)
8. Colomé R., Serra D. and **Lourenço H.R.** (2003), A new chance-constrained maximum capture location problem. Annals of Operations Research 122 (1-4): 121-139.  
ISBN 0254-5330 – [link \(pdf file\)](#) [ISI WK link\\*](#)
9. Finker M., Stützle T. and **Lourenço H.R.** (2002), Exploiting fitness distance correlation of set covering problems. In *Applications of Evolutionary Computing*, S. Cagnoni, J. Gottlieb, E. Hart, M. Middendorf, and G.R. Raidl (Eds.) Lecture Notes in Computer Science, 2279:61-71.  
ISSN: 0302-9743 – [link \(pdf file\)](#) [ISI WK link\\*](#)
10. **Lourenço H.R.** and Serra D. (2002), Adaptive search heuristics for the generalized assignment problem. Mathware and Soft Computing 9(2-3): 209-234.  
ISSN 1134-5632 – [\(pdf file\)](#)
11. **Lourenço H.R.**, Paixão J.P. and Portugal R. (2001), Multiobjective metaheuristics for the bus-driver scheduling problem. Transportation Science 35(3): 331-343.  
ISSN: 0041-1655 – [link \(pdf file\)](#) [ISI WK link\\*](#)
12. **Lourenço H.R.** and Bruno P.M. (1998), New ramification rules in a branch-and-bound method to solve the job-shop scheduling problem. Investigação Operacional (Journal of the Portuguese Operations Research Society) 18: 3-16.  
ISSN 0874-5161 – [link \(pdf file\)](#)

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\* ISI Web of Knowledge

13. **Lourenço H.R.** (1996), Sevast'yanov algorithm for the flow-shop scheduling problem. European Journal of Operational Research 91(1): 176-189.  
ISSN 0377-2217 – [link](#) ([pdf file](#)) [ISI WK link](#)\*
14. **Lourenço H.R.** (1995), Job-Shop Scheduling: computational study of local search and large-step optimization methods. European Journal of Operational Research 83(2): 347-364.  
ISSN 0377-2217 – [link](#) ([pdf file](#)) [ISI WK link](#)\*
15. Bjordal M.H., Caprara A., Cowling P.I., Della-Croce F., **Lourenço H.R.**, Malucelli F., Orman A.J., Pisinger D., Rego C. and Salazar J.J. (1995), Some thoughts on combinatorial optimization. European Journal of Operational Research 83(2): 253-270.  
ISSN 0377-2217 – [link](#) ([pdf file](#)) [ISI WK link](#)\*
16. **Lourenço H.R.** (1987). The generation of topologies for the support of the MHS Network System. Investigação Operacional (Journal of the Portuguese Operations Research Society) 7: 79-86.  
ISSN 0874-5161

### **Refereed Book Chapters**

17. **Lourenço H.R.** and Ribeiro R. (2012), Strategies for an Integrated Distribution Problem, in Hybrid Algorithms for Service, Computing and Manufacturing Systems: Routing, Scheduling and Availability Solutions, Montoya-Torres J.R., Juan A.A., Huaccho L., Faulin J. and Rodriguez-Verjan G.(eds) IGI Global Books, Hershey, PA. pp. 98-121. ([pdf file](#))
18. **Lourenço H.R.**, Martin O. and Stützle T. (2010), Iterated Local Search: Framework and Applications. In *Handbook of Metaheuristics*, 2<sup>nd</sup>. Edition. Vol.146. M. Gendreau and J.Y. Potvin (eds.), Springer New York, International Series in Operations Research & Management Science, pp. 363-397.  
ISBN – [link](#) ([pdf file](#))
19. Fernandes S. and **Lourenço H.R.** (2008), A Simple Optimized Search Heuristics for the Job-Shop Scheduling. In *Recent Advances in Evolutionary Computation for Combinatorial Optimization*, Studies in Computational Intelligence, C. Cotta and J. van Hemert (Eds.) Springer, 153:203-218.  
ISBN 978-3-540-70806-3 – [link](#) ([pdf file](#)) [ISI WK link](#)
20. **Lourenço H.R.** (2005), Logistics Management: an opportunity for Metaheuristics. In *Metaheuristics Optimization via Memory and Evolution*, C. Rego and B. Alidaee (eds.), Kluwer Academic Publishers, pp. 329-356.  
ISBN 978-1-4020-8134-7 – [link](#) ([pdf file](#)) [ISI WK link](#)\*
21. **Lourenço H.R.** (2005), e-logística. In *La logística empresarial en el nuevo milenio* (Business Logistics for the new millennium), Daniel Serra (editor), Gestión 2000, Barcelona. (in Spanish) pp. 88-116.  
ISBN 84-8088-981-0 – [link](#) ([pdf file](#))
22. Soto J.P. and **Lourenço H.R.** (2004), Caso: La logística inversa en el sector editorial. In *Logística Inversa y Medioambiente*, Díaz Fernández, B.A.; Alvarez, M.J. & Gonzalez, P. (authors), McGraw-Hill, 2004. (in Spanish) pp. 311-322.  
ISBN 84-481-4180-6 – [link](#) ([pdf file](#))
23. **Lourenço H.R.**, Martin O. and Stützle T. (2003), Iterated Local Search. In *Handbook of Metaheuristics*, F. Glover and G. Kochenberger, (eds.), Kluwer Academic Publishers, International Series in Operations Research & Management Science, pp. 321-353.  
ISBN 978-1-4020-7263-5 – [link](#) ([pdf file](#)) [ISI WK link](#)\*
24. Martí R., **Lourenço H.R.** and Laguna M. (2000), Assigning Proctors to Exams with Scatter Search. In *Computing Tools for Modeling, Optimization and Simulation*, M. Laguna and J.L. González Velarde (Eds.), Kluwer Academic Publishers, pp. 215-228.  
ISBN: 978-0-7923-7718-4 – [link](#) ([pdf file](#))
25. **Lourenço H.R.**, Paixão J.P. and Portugal R. (2000), Geração de Serviços de Motoristas através de Metaheurística- Sistema GIST (The GIST system for public transportation: the bus-driver scheduling module), in *Casos de Aplicação da Investigação Operacional (Industrial Applications of Operations Research)*, L. Valadares Tavares and C. Henggeler Antunes (Eds.), McGraw-Hill, pp. 168-184. (in Portuguese)  
ISBN 972-773-075-2 – ([pdf file](#))
26. **Lourenço HR.** and Zwijnenburg M. (1996), Combining the large-step optimization with tabu-search: application to the job-shop scheduling problem. In *Meta-Heuristics: Theory and Applications*, I.H. Osman and J.P. Kelly (Eds.), Kluwer Academic Publishers, pp. 219-236.

ISBN: 978-0-7923-9700-7 – [link \(pdf file\)](#)

### **Refereed Conference Proceedings**

27. Juan, A.; Ruiz, R.; **Lourenço, H.R.**, Mateo, M., Ionescu, D. (2010), A Simulation-based Approach for Solving the Flowshop Problem. In Proceedings of the 2010 Winter Simulation Conference. Baltimore, Maryland, USA. December 5-8 (CD).
28. Fernandes S. and **Lourenço H.R.** (2007), Hybrids Combining Local Search Heuristics with Exact Algorithms. In Proceeding of the V Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2007, F. Rodriguez, B. Mélian, J.A. Moreno, J.M. Moreno (Eds.) Tenerife, Spain, February 14-16, pp. 269-274.  
ISBN 978-84-690-3470-5 – ([pdf file](#))
29. Fernandes S. and **Lourenço H.R.** (2007), A Simple Optimized Search Heuristic for the Job-Shop Scheduling Problem. In Proceeding of the V Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2007 F. Rodriguez, B. Mélian, J.A. Moreno, J.M. Moreno (Eds.) Tenerife, Spain, February 14-16, pp. 763-770.  
ISBN 978-84-690-3470-5 – ([pdf file](#))
30. **Lourenço H.R.** (2005), Multiobjective metaheuristics for integrated logistics problems. In Proceeding of the CEDI'2005 (I Congreso Español de Informática), IV Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2005, G. Arenas, F. Herrera, M. Lozano, J.J. Merelo, G. Romero, A.M. Sánchez (Eds.) Granada, Spain, September 13-16, pp. 263-270.  
ISBN 84-9732-440-4 – ([pdf file](#))
31. Soto J.P. and **Lourenço H.R.** (2005), An heuristic for the collaborative production planning model with returns. In Proceeding of the CEDI'2005 (I Congreso Español de Informática), IV Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2005, G. Arenas, F. Herrera, M. Lozano, J.J. Merelo, G. Romero, A.M. Sánchez (Eds.) Granada, Spain, September 13-16, pp. 297-304.  
ISBN 84-9732-440-4 – ([pdf file](#))
32. Giménez C. and **Lourenço H.R.** (2005), A review on e-SCM topics. In Proceeding of the Decision Sciences Institute International Conference, IESE, Barcelona, Spain, July 3-6, pp. 805-815.  
ISBN 0-9667118-2-3 – ([pdf file](#))
33. Ribeiro R. and **Lourenço H.R.** (2005), A new model and heuristic for a multi-period inventory-routing problem. In Proceeding of the Decision Sciences Institute International Conference, IESE, Barcelona, Spain, July 3-6, pp. 403-414.  
ISBN 0-9667118-2-3 – ([pdf file](#))
34. Soto J.P., Giménez C. and **Lourenço H.R.** (2005), Reverse Logistics in the editorial sector: an exploratory study. In Proceeding of the 10<sup>th</sup> International Symposium on Logistics, Lisbon, Portugal, July 3-5, pp. 590-595.  
ISBN 0-85358-216-5.
35. Giménez C. and Lourenço H.R. (2004), e-Supply Chain Management: review, implications and directions for future research. In Proceeding of the EUROMA conference, INSEAD, Fontainebleau, 27-29 June, pp. 1021-1031.  
ISBN 2-9522210-0-6 – ([pdf file](#))
36. **Lourenço H.R.** (2004), Enseñar metaheurísticas en Facultades o Departamentos de Economía y Empresa (Teaching Metaheuristics at Business and Economic Schools). In Proceedings of The Third Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms, MAEB'2004, C. Hervás, N. García, F.J.Martínez, D. Ortiz & S. Ventura (Eds) Córdoba, Spain, February 4-6, pp. 322-328.  
ISBN 84-688-4224-9 – ([pdf file](#))
37. Soto J.P. and **Lourenço H.R.** (2003), A recoverable Production Planning Model. In Proceedings of XXVII Congreso SEIO de Estadística e Investigación Operativa. pp. 2731-2766, May.  
ISBN: 84-8409-955-5 ([pdf file](#))
38. Ribeiro R. and **Lourenço H.R.** (2003), Inventory-Routing Problem, for a multi-period problem with stochastic and deterministic demand. In Proceedings of The Second Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms, MAEB'2003, Gijón, Spain, February 5-7, pp. 257-265.  
ISBN 84-607-65-26-1 – ([pdf file](#))

39. **Lourenço H.R.** (2002), Heurísticas adaptativas para el problema de asignación generalizada (Adaptive heuristics for the generalized assignment problem). In Proceedings of The First Spanish Congress in Evolutive and Bioinspired Algorithms, Merida, Spain, February 6-7, pp. 267-257.  
ISBN 84-607-3913-9 – ([pdf file](#))
40. Ribeiro R. and **Lourenço H.R.** (2001), A multi-objective model for a Multi-period Distribution Management Problem. In Proceeding of the First International Conference on Integrated Logistics, Singapore, pp. 463-471, August.  
ISBN: 981-04-4562-8 – ([pdf file](#))
41. **Lourenço H.R.**, Martin O. and Stützle T. (2001), A beginner's introduction to Iterated Local Search. In Proceeding of the 4th Metaheuristics International Conference, Porto, Portugal, pp. 1-11.  
([pdf file](#))

#### Working Papers (not published yet)

- Gimenez C., **Lourenço H.R.** and Soto J.P. (2005), “*Reverse Logistics in the Editorial Sector: and exploratory study*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 824. ([pdf file](#))
- Giménez, C. and **Lourenço, H.R.** (2004), “*e-Supply Chain Management: Review, Implications and Directions for Future Research*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 769. (Larger and more complete version than the one published in the Proceeding of the EUROMA conference). ([pdf file](#))
- Ribeiro R. and **Lourenço H.R.** (2003), “*Inventory-Routing Model for a Multi-Period with Stochastic and Deterministic Demand*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 725. ([pdf file](#))
- Soto J.P. and **Lourenço H.R.** (2002), “*A Recoverable Production Planning Model*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 636. ([pdf file](#))
- **Lourenço H.R.**, Paixão J.P. and Portugal R. (2001), “*The crew-scheduling module in the GIST system*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 547. (English version of the chapter published in Industrial Applications of Operations Research, L. Valadares Tavares and C. Henggeler Antunes (eds.), McGraw-Hill, pp. 168-184 (2000)). ([pdf file](#))
- **Lourenço H.R.** (1998), “*A polynomial algorithm for a special case of the one-machine scheduling problem with time-lags*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 339. ([pdf file](#))
- Noivo J. and **Lourenço H.R.** (1998), “*Solving two production scheduling problems with sequence-dependent setup times*”, Economic Working Papers Series, Department of Economics and Business, Universitat Pompeu Fabra, n. 338. ([pdf file](#))
- **Lourenço H.R.** and Serra D. (2000), “*Métodos de solución de problemas de asignación de recursos sanitarios*”, (Adaptive heuristics for health resources assignment problems), Working Papers of the BBVA Foundation and CRES. ([pdf file](#))
- **Lourenço H.R.** (1994), “*The one-machine scheduling problem with lags*”, Operations Research Center Working Papers, n. 4/94, University of Lisbon, Portugal.

#### Ph.D. and Master's Dissertations

- “*A computational study of the job-shop and flow-shop scheduling problems*”, Ph.D. dissertation, Cornell University, USA, August 1993.
- “*The job-shop and flow-shop scheduling problems: survey and computational experiment*”, Master of Science dissertation, University of Lisbon, Portugal, June 1991.

#### Other Publications

- **Lourenço H.R.** (2004) “*Teaching Metaheuristics in Business Schools*” in AIRO News, IX, n.1, Spring, pp. 4-7. ([pdf file](#))
- **Lourenço H.R.**, O. Martin and T. Stützle (2003) “*Iterated Local Search*” in AIRO News VIII, n.3, Autumn, pp. 11-14. ([pdf file](#))

- **Lourenço H.R. & J.P. Soto (2003)** “*Nuevas Tendencias en Logística Inversa*” (New tendencies in Reverse Logistics) Dossier Especial Centro Español de Logística (eds.), Gestión de la cadena de suministro, Visión de Futuro. Barcelona, November.
- **Lourenço H.R.** (2002) “*e-logistics*”, in *La Logística Empresarial a les portes del nou millenni* (Business Logistics for the new millennium), Daniel Serra (editor), Fundació Empresa Ciència.
- **Lourenço H.R. & D. Serra (1998)** “*La contribución de la Investigación Operativa a la mejora de la eficiencia en el ámbito sanitario*”, (Operations Research contribution to efficiency improvement in health sector) *Papeles de Economía*, vol. 76, pp. 216-2268.

## RESEARCH IN PROGRESS

- Metaheuristics for the Open Vehicle Routing Problems with Alex Grasas (Universitat Pompeu Fabra), Luciana Pessoa and Mauricio Resende (AT&T)
- Metaheuristics for the Total Weighted Tardiness Job-Shop Scheduling Problem with Alex Grasas (Universitat Pompeu Fabra) and Susana Fernandes (University of Algarve, Portugal).
- Modeling and algorithms for Real Distribution Problems with Alex Grasas (Universitat Pompeu Fabra), Rosa Colomé (ESCI), Angel Juan (UOC) and Mercè Roca (ESCI).
- Optimized Search Heuristics with Susana Fernandes (University of Algarve, Portugal).
- Iterated Local Search methods for combinatorial optimization problems, with T. Stützle (TU Darmstadt, Germany).
- Supply Chain Management and Internet, with C. Giménez (ESADE, Spain).
- Optimization models and methods for distribution systems, with R. Ribeiro (Universidade Católica do Porto, Portugal).
- Metaheuristics for transportation planning, with R. Portugal and J.P. Paixão (University of Lisbon, Portugal).
- Production planning within a reverse logistics management, with J. Soto (Escuela Superior de Comercio Internacional, Spain) and C. Giménez (ESADE, Spain).

## FINANCED RESEARCH PROJECTS

### Main Research Projects – participation as a full member on the following projects

- 2011 - 2014 - “HAROSA@IB: Red Iberoamericana de Algoritmos, Software Libre y Computación Distribuida para la resolución de problemas de Routing, Scheduling y Disponibilidad de Sistemas”. CYTED2010-511RT0419. Main researcher: Dr. Angel A. Juan & Dr. Daniel Riera (IN3-Open University of Catalonia, Spain). Subvention: 32,992 euros/year.
- 2010 - 2013 - “Quantitative decision methods for logistics and operations management” (Métodos cuantitativos de decisión en entornos logísticos y productivos). Research Project: ECO2009-11307, Ministerio de Ciencia e Innovación, Spain. Research director: Daniel Serra. Funding 54,000 €. Team: 6 Researchers UPF.
- 2009 - 2011 - Grup de Recerca en Estratègies Empresarials (Research group in Business Strategy). Research Project: 2009 SGR 1431, AGAUR, Catalonia Government. Research director: Robin Hogarth. Funding 38,000€. Team: 11 Researchers UPF.
- 2007 - 2009 - “Quantitative decision methods for logistics and operations management” (Métodos cuantitativos de decisión en entornos logísticos y productivos). Research Project: SEJ2006-12291/ECON, Ministerio de Educación y Ciencia, Spain. Research director: Daniel Serra. Funding 126,469.20€. Team: 6 Researchers UPF + 2 external.
- 2004 - 2006 - “Quantitative decision methods for logistics and operations management” (Métodos cuantitativos de decisión en entornos logísticos y productivos). Research Project, SEC2003-01991/ECO, Spain. Research director: Daniel Serra. Funding 126,160.00€. Team: 7 Researchers UPF + 1 external.

- 2005 - 2008 - Research Group: Grup d'Estadística i Investigació Operativa. 2005 SGR 00665. AGAUR Research project, Generalitat de Catalunya. Research director: Gabor Lugosi. Funding 42,200€. Team: 8 Researchers UPF.
- 2002 - 2005 - Research Group: Grup d'Estadística i Investigació Operativa. 2002SGR 00134. AGAUR Research project, Generalitat de Catalunya. Research director: Albert Satorra. Funding 42,408€. Team: 9 Researchers UPF.
- 2001 - 2003 - "Optimization Models for Resource Assignment in Logistics and Production Systems", Research Project, BEC2000-1027, Spain, Research director: Daniel Serra. Funding 48,080.97€. Team: 5 Researchers UPF.
- 1998 - 1999 - "Optimization Models for Resource Assignment in Logistics and Production Systems". Research Project: CICYT TAP98-0229, Spain. Research director: José Niño Mora. Funding 15,746.52€. Team: 3 Researchers UPF.
- 1996 - 1999 - "Combinatorial Optimization: Algorithmic Approaches to Large-Scale Optimization Models". Research Project: FCT PRAXIS (/2/2.1MAT/139/94), Faculdade de Ciência, Universidade de Lisboa, Portugal. Research director: José Pinto Paixão.
- 1997 - 1998 - "Microeconomics Foundations of Macroeconomics Analysis: The Case of Labor Market", Research Project, Universitat Pompeu Fabra. Research director: Gilles Saint-Paul.
- 1994 - 1996 - "Combinatorial Optimization Models: Applications and Extensions", Research Project, Junta Nacional de Investigação Científica e Tecnológica, Portugal - Programa STRIDE, Portugal, nº STRDA/C/CEG/426/92. Research director: José Pinto Paixão.
- 1986 - 1990 - "Topological Design of a Network", Research Project and Development nº 809.86.148, Junta Nacional de Investigação Científica e Tecnológica, Portugal. Research director: José Pinto Paixão.
- 1986 - 1987 - "Algorithms to Design a Data Communication Network", Internship (5º year of the Licenciatura Degree), PTT- Portugal Telecom.

#### **Research Network – participation in the following research networks**

- 2008 - 2009 - Location Network (Red Temática Localización y Problemas Afines). Research Project: MTM2008-02221-E/MTM. Ministerio de Educación y Ciencia, Spain. Research director: Alfredo Marín. Funding: 10.000 €.
- 2007 - 2008 - Location Network (Red Temática Localización y Problemas Afines). Research Project: MTM2007-30163-E. Ministerio de Educación y Ciencia, Spain. Research director: Alfredo Marín.
- 2006 - 2007 - Location Network (Red Temática en Análisis de Localizaciones y sus Aplicaciones). Research Project: MTM2006-27490-E. Ministerio de Educación y Ciencia, Spain, Research director: Elena Fernández.
- 2005 - 2006 - Seminario Hispano-Brasileño sobre Logística Ambiental. Research Project: PHD2005-0050-TA, Plan de Cooperación Interuniversitario con Brasil (BOE 26-5-2005), Spain. Research director: Belarmino Adenso Díaz.
- 2005 - 2006 - Scheduling Network (Red Temática de Secuenciación de Trabajos) Referencia: DPI2004-20467-E. Ministerio de Educación y Ciencia, Spain. Research director: Jose Manuel Framiñan Torres.
- 2004 - 2006 - "Metaheuristics Network" (Red Temática en Metaheurísticas). Research Project: HEUR TIN2004-20061-E, Ministerio de Educación y Ciencia, Spain, Research director: Rafael Martí. Funding 12,000€. Team: 142 Researchers.
- 2005 - 2006 - Location Network (Red Temática en Análisis de Localizaciones y sus Aplicaciones). Research Project: MTM2005-24550-E. Ministerio de Educación y Ciencia, Spain. Research director: Elena Fernández.

- 2004 - Reverse Logistics Network (Red Temática Española de Logística Inversa) Referencia: MEC-SEJ2004-20495-E. Ministerio de Educación y Ciencia, Spain, Research director: Adenso Díaz Fernández.
- 2003-2004 - “Metaheuristics Network” (Red Temática en Metaheurísticas). Research Project: TIC2002-10886-E, Ministry of Science and Technology, Spain. Research director: Rafael Martí. Funding 24,000€. Team: 100 Researchers.

### FINANCED R&D PROJECTS with INDUSTRY

- 1996 - 1997 - “Sistema de optimización de planes de fabricación de embalajes de cartón” Research directors: Frances Ribas. Funding: 40.000 €. Empresas participantes: AIS\_ Aplicacions de Inteligencia Artificial, Spain.
- 1991 - 1997 - “Um Sistema de Apoio à Decisão para o Planeamento Operacional de sistemas de Transportes Colectivos de Passageiros - Projecto Gist” in Transport Industry. Research directors: José Maunel Pinto Paixão (Universidade de Lisboa), João Falcão e Cunha (Universidade do Porto). Funding: 700.000 €. Empresas participantes: CARRIS (Lisboa), STCP (Porto), HORARIOS DO FUNCHAL (Madeira), VIMECA (Lisboa), BARRAQUEIRO (Lisboa)

### MEMBER OF THE RESEARCH CENTERS

- 2010 to present - HAROSA Knowledge Community (HAROSA KC), Open University of Catalonia, Barcelona, Spain.  
<http://dpcs.uoc.edu/joomla/index.php/about-harosa-kc>
- 2008 to present - Closed Loop Supply Chain Center, Rotterdam School of Management, Rotterdam, The Netherlands.  
<http://www.irim.eur.nl/clsc>
- 2002 to present - *Grup de Recerca en Logística Empresarial* (Business Logistics Research Group) Institut d’Estudis Territorials, Universitat Pompeu Fabra, Spain.  
<http://www.grel.org/>
- 1997 to present - *Grup de Recerca en Economia i Salut* (Center for Research in Health and Economics) Universitat Pompeu Fabra, Spain.
- 1994 to present - *Centro de Investigação Operacional* (Operations Research Center) University of Lisbon, Portugal.  
<http://cio.fc.ul.pt/>
- 1988 to 1993 - *Centro de Estatística e Aplicações* (Applied Statistics Center) University of Lisbon, Portugal.

### CONFERENCES AND SEMINARS

#### Presentations in Conferences

- 2011 1. “MIRHA: *Multi-Start Biased Randomization Heuristics for Solving Non-Smooth Routing Problems*” in 2011 IN3-HAROSA Workshop ([HAROSA](#)), Barcelona, Spain, July 18-19, 2011.
2. “*Multi-Start Biased Randomization Heuristics for Solving Non-Smooth Routing Problems*” in Optimization ([Optimization](#)), Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal, July 24-27, 2011.
- 2010 3. “*An ILS to solve a Multiobjective Integrated Distribution Problem*” in 2010 IN3-HAROSA Workshop ([HAROSA](#)), Barcelona, Spain, November 22-23, 2010.

4. “*Matheuristics. Optimized Search Heuristics*” in Numerical Optimization and Applications in Engineering, Centred e Recerca Matemática ([CRM](#)), Bellaterra, Spain, October 13-15, 2010.
5. “*An Iterated Local Search to solve a Multiobjective Integrated Distribution Problem*” in **EURO XXIV** ([EURO 2010](#)), Lisbon, Portugal, July 11-14, 2010.
- 2009 6. “*A GRASP heuristic for the Total Weighted Tardiness Job-Shop Scheduling Problem*” in **MIC 2009 - VIII Metaheuristic International Conference** ([MIC 2009](#)), Hamburg, Germany, July 13-16, 2009. ([Program Committee](#))
- 2008 7. “*Secuenciación de trabajos: de la teoría a la práctica*” in JICAM 2008, Valencia, Spain, September 25, 2008. (invited presentation)
- 2007 8. “*Optimized Search Heuristics – A survey*” in [Optimization 2007](#), Porto, Portugal, July 22-25, 2007. (invited presentation) ([Program Committee](#)).
9. “*GRASP and Branch and Bound - A Simple Hybrid Metaheuristic for the Job-Shop Scheduling Problem*” in **The 7<sup>th</sup> European Conference on Evolutionary Computation in Combinatorial Optimization** ([EvoCOP2007](#)), Valencia, Spain, 11-13 April, 2007.
10. “*Hybrids combining Local Search Heuristics with Exact Algorithm*” in **V Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms** (MAEB'07), Puerto de La Cruz, Tenerife, Spain, 14-16 February, 2007. (invited presentation) ([Program Committee](#))
- 2006 11. “*A heuristic for the collaborative Production Planning Model with returns*” in 21st European Conference on Operational Research ([EURO 2006](#)), Reijkavik, Iceland, July 2-5, 2006. (invited presentation)
- 2005 12. “*Multiobjective metaheuristics for integrated logistics problems*”, **CEDI'2005 (I Congreso Español de Informática), IV Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2005**, Granada, Spain, September 13-16, 2005. ([Program Committee](#))
13. “*An heuristic for the collaborative production planning model with returns*”, **CEDI'2005 (I Congreso Español de Informática), IV Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados, MAEB'2005**, Granada, Spain, September 13-16, 2005. ([Program Committee](#))
14. “*A review on e-SCM topics*”, 8<sup>th</sup> **Decision Sciences Institute International Conference** ([DSI'05](#)), IESE, Barcelona, Spain, July 3-6, 2005.
15. “*A new model and heuristic for a multi-period inventory-routing problem*”, 8<sup>th</sup> **Decision Sciences Institute International Conference** ([DSI'05](#)), IESE, Barcelona, Spain, July 3-6, 2005.
- 2004 16. “*Enseñar metaheurísticas en Facultades o Departamentos de Economía y Empresa*” (Teaching Metaheuristics at Business and Economic Schools), **III Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados** (Third Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms), Córdoba, Spain, February 4-6, 2004. ([Program Committee](#))
- 2003 17. “*Inventory-Routing Problem, for a multi-period problem with stochastic and deterministic demand*”, **II Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados** (Second Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms), Gijón, Spain, February 5-7, 2003. ([Program Committee](#))
- 2002 18. “*Inventory-routing model for a multi-period with stochastic and deterministic demand*”, **INFORMS Annual Meeting** ([IAM'02](#)), San Jose, California, U.S.A., November 17-20, 2002. ([Invited presentation](#))
19. “*Adaptive heuristics for the generalized assignment problem*”, **I Congreso Español de Algoritmos Evolutivos y Bioinspirados** (First Spanish Congress in Evolutive and Bioinspired Algorithms), Merida, Spain, February 6-7, 2002. ([Program Committee](#))
- 2001 20. “*A Multiobjective Model for a Multi-period Distribution Management Problem*”, **First International Conference on Integrated Logistics**, Singapore, August 22-24, 2001.
21. “*A Beginner's Introduction to Iterated Local Search*”, **4<sup>th</sup> Metaheuristics International Conference** ([MIC'01](#)), Porto, Portugal, July 16-20, 2001. ([Program Committee and Session](#))

- Organizer).
22. “A Multiobjective Model for a Multi-period Distribution Management Problem”, **4<sup>th</sup> Metaheuristics International Conference (MIC’01)**, Porto, Portugal, July 16-20, 2001. (Program Committee and Session Organizer).
  23. “Supply Chain Management: an opportunity for metaheuristics”, **International Conference on Adaptive Memory and Evolution: Tabu Search and Scatter Search**, Oxford, Mississippi, March 7-10, 2001. (Invited presentation).
  - 2000 24. “Multiobjectives metaheuristics for the bus-driver scheduling problem”, **International Symposium on Mathematical Programming**, Atlanta, U.S.A., August 7-11, 2000. (Invited presentation) “Optimized search heuristics”, **Computing in Economics and Finance**, Barcelona, Spain, July 6-8, 2000.
  25. “Exam proctor assignment”, **INFORMS Computing Society Conference**, Cancun, Mexico, January 5-7, 2000.
  - 1999 26. “A new heuristic for capacitated location problems”, **3<sup>rd</sup> Metaheuristics International Conference**, Angra dos Reis, Brazil, July 19-23, 1999. (Program Committee and Session Organizer).
  - 1998 27. “Metaheuristics for the bus-driver scheduling problem”, **INFORMS Fall Meeting**, Seattle, USA, October 25-28, 1998.
  28. “Adaptive approach heuristics for the generalized assignment problem”, **Optimization 98**, Coimbra, Portugal, July 20-22, 1998.
  29. “Metaheuristics for set-covering problems related to bus-driver scheduling”, **EURO XVI**, Brussels, Belgium, July 12-15, 1998.
  - 1997 30. “New branching scheme for the job-shop scheduling”, **EURO XV / INFORMS XXXIV**, Barcelona, Spain, July, 14-17, 1997.
  - 1996 31. “Metaheuristics for the job-shop scheduling”, invited lecture, **EAlA’96**, Advanced School on Artificial Intelligence, Monte Estoril, Portugal, October 7-11, 1996.
  32. “Solving a timetabling application with tabu-search”, **IFORS 96**, 14th Triennial Conference of the International Federation of Operational Research Societies, Vancouver, Canada, July 8-12, 1996. (Invited presentation)
  33. “Solving a generalized job-shop with tabu-search”, **7<sup>o</sup> Congresso da APDIO - IO’96**, Aveiro, Portugal, April 1-3, 1996. (Program Committee)
  34. “Branching Rules to a new branch-and-bound for the job-shop scheduling”, **7<sup>o</sup> Congresso da APDIO - IO’96**, Aveiro, Portugal, April 1-3, 1996. (Program Committee)
  35. “Solving a generalized job-shop with tabu-search”, **Symposium on Combinatorial Optimization (CO96)**, Imperial College, technology and Medicine, London, United Kingdom, March 27-29, 1996.
  36. “Solving a generalized job-shop with tabu-search”, **Young OR 9**, University of York, York, United Kingdom, March 25-27, 1996. (Program Committee and Session Organizer).
  - 1995 37. “Combining the large-step optimization with tabu-search: application to the job-shop scheduling problem”, **1<sup>st</sup> Metaheuristics International Conference**, Breckenridge, Colorado, USA, July 22-26, 1995.
  38. “Combining the large-step optimization with tabu-search: application to the job-shop scheduling problem”, **Optimization 95**, Braga, Portugal, July 17-19, 1995.
  39. “Application of large-step optimization and tabu-search methods to the job-shop scheduling problem”, **EURO XIV**, Jerusalem, Israel, July, 3-6, 1995.
  40. “Combining the large-step optimization with tabu-search: application to the job-shop scheduling problem”, **AI/OR Workshop**, Timberline Lodge, Oregon, USA, June 6-10, 1995.
  - 1994 41. “The one-machine scheduling problem with lags”, **The 15th International Symposium on Mathematical Programming**, Ann Arbor, Michigan, USA, August 15-19, 1994.
  42. “Local optimization and the job-shop scheduling problem”, **X Euro Summer Institute**, Groupe HEC, Jouy-en-Josas, France, July 1-15, 1994. (National selection).
  43. “Applications of large-step optimization and tabu search methods to the job-shop scheduling problem”, **6<sup>o</sup> Congresso da APDIO - IO’94**, Braga, Portugal, March 28-30, 1994.
  44. “The one-machine scheduling problem with lags”, **6<sup>o</sup> Congresso da APDIO - IO’94**, Braga, Portugal, March 28-30, 1994.
  45. “Local optimization and the job-shop scheduling problem”, **4<sup>a</sup> Conferência do CEMAPRE: Aplicações da Matemática à Economia e à Gestão**, Lisboa, Portugal, March 23-25, 1994.

- 1992 46. “*Sevast'yanov's algorithm and the flow-shop scheduling problem*”, **ORSA/TIMS Joint National Meeting**, Orlando, USA, April 26-29, 1992.
- 1989 47. “The generation of topologies for the support of the MHS System Network”, **EURO X**, Belgrado, Yugoslavia, June 27-30, 1989.
- 1987 48. “*Problemas e algoritmos no projecto da rede internodal de uma rede de comunicação de dados*”, **3º Congresso da APDIO**, Coimbra, Portugal, October 11-14, 1987.
49. “*Geração de topologias da rede de suporte ao sistema MHS*”, **3º Congresso da APDIO**, Coimbra, Portugal, October 11-14, 1987.

#### Invited University Seminars and Courses

- “*Aplicaciones Empresariales de Nuevas Técnicas de Análisis Logística*”, Jornada de Business Analytics, Fundación Ramón Areces, Madrid, Spain, January 24, 2011.  
<http://fundacionareces.tv/permalink/asset/fe8d9ff0-31d5-44a8-a465-2231f446e27f>
- “*Herramientas para la toma de decisiones del Laboratorio Clínico*”, Jornada de Gestión, Sociedad Española de Bioquímica Clínica y Patología Molecular (6.5 hours), Barcelona, Spain, November 25, 2010.
- “*La logística inversa en el sector editorial*”, Conferenciante en el programa de “**Logística Inversa y Medio Ambinete**”, Gijón, Spain, July 6, 2007.
- “*La logística inversa en el sector editorial*”, **Simposium de Logística Inversa**, Fundación Escuela de Negocios de Asturias, Gijón, Spain, May 18, 2006.
- “*Metaheuristics in Logistics Operations*”, **Seminaris in Transport**, Escola Tècnica Superior d'Enginyers de Camins, Canals i Ports, Universitat Politècnica de Catalunya, Barcelona, Spain, May 25, 2000.
- “*Metaheuristics and lower bounds for the job-shop scheduling*”, Department of Economics and Management, **Universitat Pompeu Fabra**, Spain, February 20, 1997.
- “*Simulated annealing techniques*”, **OR Seminar, ISCTE** (Instituto Superior de Ciências do Trabalho e da Empresa), Lisboa, Portugal, May 31, 1995.
- “*Local optimization and the job-shop scheduling problem*”, Seminário Permanente de Investigação Operacional e Optimização, **CEMAPRE**, Management and Economics Institute, Technical University of Lisbon, Lisboa, Portugal, February 2, 1994.
- “*The one-machine scheduling problem*”, Computer Science Department, **Pisa University**, Italy, October 27, 1994.
- “*Local optimization and the job-shop scheduling problem*”, Seminários da Área de Investigação Operacional, **Department of Statistics and Operations Research**, University of Lisbon, Lisboa, Portugal, November 17, 1993.

#### PROGRAM COMMITTEES

- 07/2011 - Member of the Program Committee of **9<sup>th</sup> Metaheuristics International Conference**, July 25-28, 2011, Udine, Italy. ([MIC 2011](#)) ([pdf file](#))
- 07/2011 - Member of the Program Committee of **Optimization 2011**, July 24-27, 2011, Costa da Caparica, Lisboa, Portugal. ([Optimization 2011](#)) ([pdf file](#))
- 07/2011 - Member of the Technical Program Committee of the ECOM and Genetic Algorithms tracks at **Genetic and Evolutionary Computation Conference 2011 (GECCO)**, July 12-16, Dublin, Ireland. ([pdf file](#))
- 07/2011 - Member of the Program Committee of the **RCRA International Workshop 2011 (RCRA 2011)**, July 17-18, Barcelona, Spain. ([pdf file](#))
- 09/2010 - Member of the Program Committee of **V Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms (MAEB'10)**, Valencia, Spain. ([pdf file](#))
- 07/2010 - Member of the Program Committee of the **Genetic and Evolutionary Computation Conference 2010 (GECCO)**, July 7-11, Portland, Oregon, USA. ([pdf file](#))
- 07/2010 - Member of the Program Committee of the **Combinatorial Optimization and**

- Metaheuristics (COM) Track for the Genetic and Evolutionary Computation Conference 2010**, July 7-11, Portland, Oregon, USA. ([pdf file](#))
- 05/2010 - Member of the Program Committee of **9th International Symposium on Experimental Algorithms (SEA 2010)**, May 20-22, Ischia Island, Napoli, Italy. ([pdf file](#))
  - 02/2009 - Member of the Program Committee of **V Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms (MAEB'09)**, Malaga, Spain. ([pdf file](#))
  - 07/2009 - Member of the Program Committee of the **The 9th Metaheuristics International Conference (MIC'09)**, Hamburg, Germany. ([pdf file](#))
  - 07/2007 - Member of the Program Committee of the **Optimization International Conference (Optimization 2007)**, Porto, Portugal. ([pdf file](#))
  - 06/2007 - Member of the Program Committee of the **The 7th Metaheuristics International Conference (MIC'07)**, Montreal, Canada. ([pdf file](#))
  - 04/2007 - Reviewer of **The 7th European Conference on Evolutionary Computation in Combinatorial Optimization (EvoCOP2007)**, Valencia, Spain.
  - 03/2007 - Member of the Program Committee of **Jornadas de Algoritmos Evolutivos y Metaheurísticas (JAEM 2007)**, Zaragoza, Spain. ([pdf file](#))
  - 02/2007 - Member of the Program Committee of **V Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms (MAEB'07)**, Puerto de La Cruz, Tenerife, Spain.
  - 04/2006 - Member of the Program Committee of **The 6th European Conference on Evolutionary Computation in Combinatorial Optimization (EvoCOP2006)**, Budapest, Hungary. ([pdf file](#))
  - 07/2006 - Organizer of Invited Session in the field of Combinatorial Optimization (Heuristics and Metaheuristics) of **The 19th International Symposium on Mathematical Programming (ISMP2006)**, Rio de Janeiro, Brazil.
  - 09/2005 - Member of the Program Committee of **IV Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms (MAEB'05)**, Granada, Spain.
  - 08/2005 - Member of the Program Committee of **The 6th Metaheuristics International Conference (MIC'05)**, Vienna, Austria.
  - 02/2004 - Member of the Program Committee of **III Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms (MAEB'04)**, Córdoba, Spain.
  - 08/2003 - Member of the Program Committee of **The 5th Metaheuristics International Conference (MIC'03)**, Kyoto, Japan.
  - 02/2003 - Member of the Program Committee of **II Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms (MAEB'03)**, Gijón, Spain.
  - 02/2002 - Member of the Program Committee of **First Spanish Congress in Evolutive and Bioinspired Algorithms (AEB'02)**, Mérida, Spain.
  - 07/2001 - Member of the Program Committee of **The 4th Metaheuristics International Conference (MIC'01)**, Porto, Portugal.
  - 07/1999 - Member of the Program Committee of **The 3rd Metaheuristics International Conference (MIC'99)**, Angra dos Reis, Rio de Janeiro, Brazil.
  - 04/1996 - Member of the Program Committee of **7th Operations Research Conference (IO'96)**, Aveiro, Portugal.
  - 07/1988 - Member of the Organization Committee of the Sixth Euro Summer Institute "Decision Support System", Madeira, Portugal.

### 3. TEACHING

#### TEACHING EXPERIENCE

- 1997 to present - Department of Economics and Business, Universitat Pompeu Fabra, Spain
- Operations Management (Full-time MBA)
  - Supply Chain Management (Full-time MBA)
  - Logistics (Masters and Ph.D. course)
  - Commercial Distribution (undergrad course in European Higher Education Area (Espacio Europeo de Enseñanza Superior) since 2007/2008)
  - Commercial Distribution (undergrad course)
  - Quantitative Methods for Business (undergrad course in European Higher Education Area (Espacio Europeo de Enseñanza Superior) since 2010/2011)
  - Operations Research (undergrad course)
  - Production and Operations Management (undergrad course)
  - Organization and Methods (undergrad course)
  - Business Logistics (Summer course)
- 1997 to present - Institut de Educació Continua (IDEC), Universitat Pompeu Fabra, Spain.  
Collaboration in the following programs:
- Applied Economic Analysis (Masters)
  - Business Logistics (Masters)
  - Economy of Health and Sanitation Management (Masters)
  - International e-business (Masters)
  - Logistics Management (Masters)
  - Marketing (Masters and Executive Masters)
  - MBA Part-Time (Masters)
  - MBA Full-Time (Masters)
  - Business Management (University Postgraduate Diploma)
  - Property Planning and Administration (University Postgraduate Diploma)
  - Business with Latin America (University Postgraduate Diploma)
- 1998 to 1999 - Escola Universitària d'Estudis Empresarials del Maresme, Spain.
- Operations Research (undergrad course)
- 1997 - Department of Statistics and Operations Research, Faculdade de Ciências, University of Lisbon, Portugal (Invited).
- Operations Research Models (Masters course)
- 1996 to 2002 - Centro Español de Logística (Spanish Logistics Society). Teaching the following courses of the APICS and ELA International Programs:
- Material Requirements Planning (MRP)
  - Resource Planning
  - Transportation Management
  - Vehicle Routing
- 1988 to 1996 - Department of Statistics and Operations Research, Faculdade de Ciências, University of Lisbon, Portugal.
- Combinatorial Models (Masters course)
  - Heuristics Techniques (Masters course)
  - Operations Research Models (Masters course)
  - Combinatorial Optimization (undergrad course)
  - Introduction to Operations Research (undergrad course)
  - Operations Research Project (undergrad course)
- 1994 to 1996 - Department of Marketing, ISLA (Instituto Superior de Línguas e Administração), Lisboa, Lisbon, Portugal.
- Introduction to Operations Research (undergrad course)
  - Operations Management (undergrad course)
- 1994 to 1995 - Mathematics Department, Universidade da Madeira, Funchal, Portugal (Invited)
- Combinatorial Optimization (undergrad course)

- 1989 to 1991 - School of Operations Research and Industrial Engineering, Cornell University, USA. Teaching Assistant.
- Graph Theory and Network Flows (Ph.D. course)
  - Discrete Optimization (undergrad course)
  - Optimization I (undergrad course)
- 1995 to present - Courses “in-company” in the following companies:
- Banco Sabadell, Spain
  - Caixa de Manresa, Spain
  - CINESA, Spain
  - DAMM, Spain
  - Danone, Spain
  - EDP, Portugal
  - Navision, Spain

### TEACHING COURSES attended

- 2009 - Curso Moodle (2h)
- 2008 - The actual model of university career at Spanish Universities (Model actual de la carrera acadèmica a les Universitats). Universitat Pompeu Fabra. 22 Octubre (2 hours)
- 2008 - El Pla Docent: La brúixola de l'estudiant, el mapa del professor. *Centre per la Qualitat i la Innovació Docent*. Universitat Pompeu Fabra. 18 y 25 de noviembre (8h)
- 2008 - The management of European Research Projects (Jornadas de Gestión de Proyectos Europeos de Investigación y Desarrollo). Institut d'Educació Continua, Universitat Pompeu Fabra. 7-8 July (15 hours)
- 2007 - II Workshop on Good Teaching (II Jornadas de Bones Pràctiques Acadèmiques a la UPF). PQE (Education Quality Program) Universitat Pompeu Fabra. 17-18, octubre (11 hours)
- 2007 - Introduction to Moodle, version 1.8). PQE (Education Quality Program) Universitat Pompeu Fabra. 19, June (2 hours)
- 2002 - How to use cases studies in class (Com pots utilitzar casos a l'aula). PQE (Education Quality Program) Universitat Pompeu Fabra. Teacher: Lucia Gil.
- 2002 - Using Power Point for Teaching (Com treure partit del Power Point en la Docència). PQE (Education Quality Program) Universitat Pompeu Fabra. Teacher: José Antonio Pascual.
- 2002 - Techniques for public speaking (Tècniques de presentació en públic). Educational Services (Serveis Formatius) Universitat Pompeu Fabra. Teacher: Albert Ribau de Syntagma.
- 2002 - Planning the teaching intervention (Planificació de la Intervenció Pedagògica). Educational Services (Serveis Formatius) Universitat Pompeu Fabra. Teacher: Lucia Gil.
- 1989 - The graduate teaching development workshop. Office of Instructional Support. Cornell University. USA.

### TEACHING ACTIVITIES

- 2010 to 2011 - Materials of the course **Quantitative Methods for Business** adapted to the Bologna Process is a European, including power points, case studies, exercises, online exercises and interactive learning activities, etc., in Moodle.
- 2009 to 2010 - Materials of the course **Operations Management** adapted to the Bologna Process is a European, including power points, case studies, exercises, online exercises and interactive learning activities, etc., in Moodle.
- 2008 to 2009 - Materials of the course **Commercial Distribution** adapted to the Bologna Process is a European, including power points, case studies, exercises, online exercises and interactive learning activities, etc., in Moodle.
- 2007 to present - Coordination of the courses Commercial Distribution and Production and

- Operations Management of the *Licenciatura* in Business Administration (Licenciatura en Administración y Dirección de Empresas).
- 1997 to 2008 - Materials of the course Production and Operations Management, including power points, case studies, exercises.
- 1997 to 2007 - Materials of the course Commercial Distribution, including power points, case studies, exercises.

### TEACHING INNOVATION PROJECTS

- 2011 to 2012 - UPF funded project Research Innovation for the creation of new materials for the following course: Commercial Distribution. Teaching Innovation Project: PlaCQUID 2010-2011. Plaquid de Suport a la Innovació i la Qualitat Docent” gestionada por el *Centre per la Qualitat i la Innovació Docent*. Research director: Helena R. Lourenço (funding 1500€)
- 2009 to 2010 - UPF funded project Research Innovation for the creation of new materials for the following course: Commercial Distribution. Teaching Innovation Project: PlaCQUID 2009-2010. Plaquid de Suport a la Innovació i la Qualitat Docent” gestionada por el *Centre per la Qualitat i la Innovació Docent*. Research director: Helena R. Lourenço (funding 1000€)
- 2007 to 2008 - UPF funded project Research Innovation for the creation of new materials for the following courses: Commercial Distribution, and Operations Research. Teaching Innovation Project: 120 PMSIQD 2007-2008 1. Pla de Suport a la Innovació i la Qualitat Docent” gestionada por el *Centre per la Qualitat i la Innovació Docent*. Research director: Helena R. Lourenço (funding 1000€)
- 2003 to 2004 - UPF funded project “Innovació Docent” (Teaching Innovation) for the creation of web materials for the following courses: Commercial Distribution, Operations Management and Operations Research. Teaching Innovation Project. Joint with Daniel Serra & Cristina Giménez. (funding 1791€).

### TEACHING PUBLICATIONS

- 2004 **Lourenço H.R.** (2004), Enseñar metaheurísticas en Facultades o Departamentos de Economía y Empresa (Teaching Metaheuristics at Business and Economic Schools). In Proceedings of The Third Spanish Congress in Metaheuristics, Evolutive and Bioinspired Algorithms, MAEB'2004, C. Hervás, N. García, F.J.Martínez, D. Ortiz & S. Ventura (Eds) Córdoba, Spain, February 4-6, pp. 322-328. ISBN 84-688-4224-9.
- 2004 **Lourenço H.R.** (2004) “Teaching Metaheuristics in Business Schools” in AIRO News, IX, n.1, Spring, pp. 4-7.

### MERITS IN TEACHING

- 2006/2009 - *Mèrits de Docència* (Four Merits in Teaching) (04/01/1988 to 03/01/1993), (04/01/1993 to 11/09/1998), (12/09/1998 to 11/09/2003) and (12/09/2003 to 11/09/2008). Catalan University Quality Assurance Agency, AQU Catalunya, Generalitat de Catalunya.
- 2008/2009 - Award to the best Teaching Plan for 2008-2009. (*Premi al Millor Pla Docent del curs 2008-2009 de la Facultat de Ciències Econòmiques i Empresariales, pel Pla Docent de l'assignatura Distribució Comercial.*)
- 2007/2008 - 10% Top rating on overall quality of instructor for the undergraduate degree on Business Administration (Llicenciatura en Administració i Direcció d'Empreses), Universitat Pompeu Fabra, Barcelona, Spain.
- 2005/2006 - 10% Top rating on overall quality of instructor for the undergraduate degree on Business Administration (Llicenciatura en Administració i Direcció d'Empreses), Universitat Pompeu Fabra, Barcelona, Spain.
- 2004/2005 - 10% Top rating on overall quality of instructor for the undergraduate degree on Business Administration (Llicenciatura en Administració i Direcció d'Empreses),

- Universitat Pompeu Fabra, Barcelona, Spain.
- 2002/2003 10% Top rating on overall quality of instructor for the undergraduate degree on Business Administration (Llicenciatura en Administració i Direcció d'Empreses), Universitat Pompeu Fabra, Barcelona, Spain.
- 07/2004 - Positive valuation of the teaching activities (Informe favorable de l'actividad docent), Universitat Pompeu Fabra, Barcelona, Spain.

#### 4. SERVICE

##### EDITORIAL TEAM and PEER REVIEWER

- Journal of Industrial Engineering and Management, Editorial Board (Production, Logistics, Quality, and Operational Research) (<http://www.jiem.org/>).
- INFORMS Journal on Computing, Annals of Operations Research, Management Science, Operations Research, Computational Optimization and Applications, European Journal of Operational Research, Journal of Heuristics, Journal of Scheduling, Journal of Metaheuristics, Omega-The International Journal of Management Science, Applied Soft Computing, Investigação Operacional and several Conference Proceedings.

##### THESIS ADVISOR

###### Ph.D.'s Dissertations

- June 2012 - Pedro Portugal de Sousa Nunes — *expected June 2012*  
Title: Simulation and Optimization applied to Logistics Problems  
Department of Economics and Business, University of the Azores, Portugal.  
(co-adviser with Prof. Francisco Silva)
- January 2009 - Susana Isabel de Matos Fernandes  
Title: Optimised Search Heuristics: Combining Metaheuristics and Exact Methods to solve Scheduling Problems  
Department of Mathematics, University of Algarve, Portugal.
- September 2008 - José Fernando Alvarez  
Title: *Optimization Algorithms for Maritime Terminal and Fleet Management*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain
- March 2006 - Deolinda Maria Lopes Dias Rasteiro  
Title: *Optimização em redes com Parâmetros Aleatórios (Network Optimization with Random Parameters)*  
Mathematics Department, University of Aveiro, Portugal (co-adviser).
- February 2006 - Rita Portugal  
Title: *Novas abordagens para a Geração de Serviços de Pessoal Tripulante em Empresas de Transporte (A new approach for the Drivers Scheduling Problem in Transportation Companies)*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.  
(co-adviser with Prof. José Pinto Paixão)
- January 2006 - Juan Pablo Soto  
Title: *Reverse Logistics: Models and Applications*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- March 2004 - Rita Ribeiro  
Title: *Integrated distribution management problems: an optimization approach*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.

###### Master's Dissertations

- June 2006 - Clarisse Coelho  
Title: *Supply Chain Structures for Electronic grocery*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- June 2006 - Andriy Ivchenko

- Title: *Making Better Decision with Decision Support Systems: Modeled vs. Non-Modeled Information-Logistics Perspective*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- June 2006 - José Fernando Alvarez  
Title: *An Algorithm for Efficient Ship Load Planning in a Terminal With Deep Blocks*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain
- June 2005 - Monique Mizrahi  
Title: *Heuristics for scheduling problems*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain
- December 2001 - Juan Pablo Soto  
Title: *A recoverable production planning model*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- November 2000 - Rita Ribeiro  
Title: *A multi-objective model for a multi-period distribution management problem*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- September 1998 - Rita Portugal  
Title: *Metaheuristics in transportation systems*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.
- February 1997 - João António dos Santos Noivo  
Title: *Study of two scheduling problems with setup times*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.
- September 1995 - Paula Marta Pereira Bruno  
Title: *Branch-and-bound for the job-shop scheduling problem*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.
- August 1994 - Michiel Zwijnenburg  
Title: *Local optimization to the job-shop scheduling based on tabu search and large-step techniques*  
University of Lisbon, Portugal, and Eramus University, The Netherlands.

## THESIS EXAMINATION BOARDS

### Ph.D.'s Dissertations

- July 2010 - Fábio Cerquinho  
Title: *Three Essays on the subject of supply risk in industrial markets: Specification, Assessment and Mitigation*  
Universidad de Navarra, IESE; Spain.
- January 2009 - Susana Isabel de Matos Fernandes  
Title: *Optimised Search Heuristics: Combining Metaheuristics and Exact Methods to solve Scheduling Problems*  
Department of Mathematics, University of Algarve, Portugal.
- March 2008 - Elcio Mendonça Tachizawa  
Title: *Uncertainty, Integration and Supply Flexibility*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- March 2006 - Deolinda Maria Lopes Dias Rasteiro  
Title: *Optimização em redes com Parâmetros Aleatórios (Network Optimization with Random Parameters)*  
Mathematics Department, University of Aveiro, Portugal (co-adviser).
- September 2005 - Francisco Silva  
Title: *Queueing location models: Formulations and heuristics*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- December 2004 - Ana Maria Marques de Moura Gomes Viana  
Title: *Metaheuristics for The Unit Commitment Problem: The Constraint Oriented Neighborhood Search Strategy*  
Electrical Engineering School, University of Porto, Portugal.
- May 2002 - Rosa Colomé Perales

- June 2000 - Title: *Consumer Choice in Competitive Location Models*  
Department of Economics and Business, Universitat Pompeu Fabra, Spain.
- António Batel Anjo  
Title: *Simulated annealing controlled by entropy*  
Mathematics Department, University of Aveiro, Portugal.

### Master's Dissertations

- February 2011 - Unai Aldasoro Marcellán  
Title: *Optimización de modelos estocásticos de Mercado eléctrico múltiple mediante métodos duales*  
Master in Statistics and Operations Research, Universitat Politècnica de Catalunya, Catalonia, Spain.
- February 1996 - Marco Paulo dos Santos Carrasco  
Title: *Neural networks for timetabling problem*  
Economics and Business Institute, Technical University of Lisbon, Portugal.
- January 1996 - Ana Maria Dias Madureira  
Title: *Metaheuristics for sequencing problems*  
Electrical Engineering School, University of Porto, Portugal.
- July 1994 - Fernando Jorge de Lyz Girou Rodrigues Catanas  
Title: *The crew rotation problem: a new solution method*  
Department of Statistics and Operations Research, University of Lisbon, Portugal.

### Tutora de prácticas en empresas y directora de tesinas. Universitat Pompeu Fabra

- Curso 2008-2009 - Anna Gracés Medina  
Titulo: Gestión de stocks en logística.
- Curso 2006-2007 - Jordi Pagés Bru  
Titulo: La dirección de la cadena de aprovisionamiento y los indicadores de rendimiento.
- Curso 2005-2006 - Ramón Cabrito González  
Titulo: ¿Puede la cadena de suministro añadir valor a la empresa?

### SERVICE at Universitat Pompeu Fabra

- 10/2009 to 6/2010 - Member of the Recruiting Committee; Economics and Business Department, Universitat Pompeu Fabra, Spain.
- 10/2002 to 09/2007 - Vice-Dean (vice-decana) of Economics and Institutional Relations of the School of Economics and Business (Facultat de Ciències Econòmiques i Empresariales), Universitat Pompeu Fabra, Spain.
- 03/2005 - Teaching Evaluation Commission, Department of Economy and Business, Universitat Pompeu Fabra, Spain.
- 04/2004 - Teaching Evaluation Commission, Department of Economy and Business, Universitat Pompeu Fabra, Spain.
- 01/2003 to 05/2004 - MBA Student Admissions and Evaluation Committee, Universitat Pompeu Fabra, Spain.
- 09/2002 to 07/2003 - Member of the Recruiting Committee, Department of Economy and Business, Universitat Pompeu Fabra, Spain.
- 03/2002 to 10/2002 - Sub-director of the Department of Economy and Business, Universitat Pompeu Fabra, Spain.
- 06/2000 to 11/2000 - Academic coordinator of the undergraduate program "Business Logistics" at Escola Universitària d'Estudis Empresarials del Maresme, Spain. Nominated by Universitat Pompeu Fabra.

- 09/2000 to 09/2001 - Member of the Academics Commission (Comissió d'Ensenyament), Department of Economics and Business, Universitat Pompeu Fabra, Spain.

#### OTHER SERVICE

- 2008 to present - Avaluadora ANEP
- 07/2008 to present - Avaluadora, L'Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR), Generalitat de Catalunya.
- 11/2006 to present - Membre assessor de la Comissió específica de Ciències Socials de la Comissió de Professorat Lector i Professorat Col·laborador, Agència per a la Qualitat del Sistema Universitari de Catalunya.
- 03/2006 - Membre assessor de la Comissió específica de Ciències Socials de la Comissió de Professorat Lector i Professorat Col·laborador, Agència per a la Qualitat del Sistema Universitari de Catalunya.
- 08/2003 to 10/2003 - Peer Reviewer for the Dutch Social Science Research Council, The Nederland.
- 05/2002 to 07/2002 - Member of the Grant Review Committee, Ministry for Education, Italy.
- 12/2001 to 10/2002 - Member of the External Evaluation Committee for the Industrial Engineering and Management Program in Portuguese Universities. Invited by the Ministry of Education of the Portuguese Government.
- 01/1995 to 01/1997 - Vice-President of The Portuguese Operations Research Society (APDIO).

### 5. OTHER RELEVANT INFORMATION

#### ACADEMIC AWARDS

- 01/1993 to 08/1993 - Fellowship from Luso-American Foundation, Lisbon, Portugal.
- 01/1990 to 12/1992 - Fellowship from Portuguese National Research Institute (*Junta Nacional de Investigação Científica e Tecnológica*), Lisbon, Portugal.
- 08/1989 to 12/1990 - Teaching Assistantship from Cornell University, USA.
- 01/1987 to 10/1988 - Fellowship from Portuguese National Research Institute (*Junta Nacional de Investigação Científica e Tecnológica*), Lisbon, Portugal.

#### ASSOCIATIONS

- INFORMS - Institute for Operations Research and Management Science.  
[www.informs.org](http://www.informs.org)
- APDIO - Portuguese Operations Research Society. (Vice-president 1995-1997).  
[www.apdio.pt/](http://www.apdio.pt/)
- DSI - Decision Sciences Institute  
[www.decisionsciences.org/](http://www.decisionsciences.org/)
- POMS - The Production and Operations Management Society  
[www.poms.org/](http://www.poms.org/)

#### LANGUAGES

- Portuguese - Mother language.
- English - Very good oral, written and reading proficiency.

- Spanish - Very good oral, reading and written proficiency.  
Catalan - Good reading proficiency, fair oral and written proficiency.

#### **OTHER ACTIVITIES**

- 11/2009 - Attendance of the *International Conference on Intelligent Networking and Collaborative Systems*, organized by Universitat Oberta de Catalunya, Barcelona, Spain.  
02/2009 - Attendance of the *Reunión de coordinación de la Red temática “Localización y Problemas Afines”*, organized by Universidad de Murcia, Spain  
03/2004 - Attendance of the *I Jornadas sobre Logística Inversa* organized by Universidad de Oviedo, Gijón, Spain.  
03/2004 - Attendance of the *Zaragoza International Logistics Summit* organized by Zaragoza Logistics Center, Zaragoza, Spain.  
01/2001 - Attendance of the *E-Logistics Executive Conference* organized by Georgia Institute of Technology, Brussels, Belgium.  
10/1998 - Invited by Fred Glover and Manuel Laguna for a short stay, Operations Management Group, Graduate School of Business Administration, University of Colorado, USA.  
04/1996 - Attendance of the *Workshop on Structuring Methods* given by Prof. Jonathan Rosenhead, and organized by APDIO, Portugal.  
10/1994 - Invited by Federico Malluceli for a short stay, Computer Science Department, Pisa University, Pisa, Italy.  
07/1998 - Attendance of the *EURO IX-TIMS XXVIII* in Paris, France.

#### **INDEPENDENT CONSULTING**

- 09/2003 - CINESA, “Forecast system for the number of spectators in movie theaters”.  
08/1998 - OPT (Planeamento e Optimização de Transportes, SA.), “Crew Planning in the GIST Transportation System”.  
09/1997 - CINESA, “Forecast system for the number of spectators in movie theaters”.  
06/1997 - DANONE, “Transportation Management and Vehicle Routing”.  
09/1997 - DAPSA, “Scheduling optimization of cardboard boxes production”.  
06/1997 - EDP (Portuguese National Electrical Company), “Project Management”.