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# Curriculum Vitae

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## Education

1978: Université Libre de Bruxelles: Licenciée en Sciences Mathématiques  
(B.Sc.Math.)  
1981: Université Libre de Bruxelles: Licenciée en Sciences Actuarielles  
(M. Actuarial Sc.)  
1985: Université Libre de Bruxelles: Docteur en Sciences Mathématiques  
(Ph.D.)

## Experience

*Academic*

2011- 2012: Vice-doyenne	Faculté des Sciences Université Libre de Bruxelles
2007- 2011: Doyenne	Faculté des Sciences Université Libre de Bruxelles
2004- 2007: Vice-Doyenne	Faculté des Sciences Université Libre de Bruxelles
2003- : Professeur Ordinaire	Département d'Informatique Université Libre de Bruxelles
2000-2002: Professeur Ordinaire	Institut de Statistique et de Recherche Opérationnelle, Université Libre de Bruxelles
2003: Présidente	Institut de Statistique et de Recherche Opérationnelle, Université Libre de Bruxelles
1999-2002: Vice-présidente	Institut de Statistique et de Recherche Opérationnelle, Université Libre de Bruxelles
1999-2000: Professeur	Institut de Statistique et de Recherche Opérationnelle, Université Libre de Bruxelles
1995-1999: Chargée de cours	Institut de Statistique et de Recherche Opérationnelle, Université Libre de Bruxelles
1992-1995: Research associate (permanent research position funded by the National Fund for Scientific Research of Belgium)	Service de Mathématiques de la Gestion, Université Libre de Bruxelles
1991-1992: Researcher	Centre d'Economie Mathématique et d'Econométrie, Université Libre de Bruxelles
1988-1991: Universitair docent (Assistant professor)	Econometrisch Instituut, Erasmus Universiteit Rotterdam
1986-1988: Professeur associé (Visiting professor)	Université Louis Pasteur, Strasbourg
1985-1986: Teaching and research assistant	Centre d'Economie Mathématique et d'Econométrie, Université Libre de Bruxelles
1982-1985: Graduate student/research assistant	Institut de Statistique Université Libre de Bruxelles
1978-1980: Teaching assistant in Statistics	Université Libre de Bruxelles

*Industrial*

1980-1982: Non-life actuarial

Assubel - Accidents et Dommages  
(Insurance Company), Brussels

## **Fields of Interest**

- Mathematical and combinatorial optimization
- Network optimization
- Bilevel programming
- Transportation and telecommunication models
- Location theory

## Doctoral students

1. Alessia Violin: “A mathematical programming approach to pricing problems”, Ph.D. under progress, ULB.
2. Aykut Ozsoy: “Graph partitioning problems ”, public defense, May 12, 2011, ULB.
3. Michael Poss: “Stochastic optimization and network design”, public defense, February 22, 2011, ULB.
4. Martha Salazar Neumann: “Advances in robust combinatorial optimization and linear programming”, public defense, January 2010, ULB.
5. Daniele Catanzaro: “Advances in Molecular Phylogenetics”, public defense October 28, 2008, ULB.
6. Géraldine Heilporn : “Network pricing problems: complexity, polyhedral study and solution approaches”, public defense, October 14, 2008, ULB.
7. David Huygens : “Design of Survivable Networks with Bounded-Length Paths”, public defense, September 30, 2005, ULB.
8. Sophie Dewez : “On the Toll Setting Problem”, public defense June 8, 2004, ULB.
9. Hande Yaman : “Concentrator location in telecommunication networks”, public defense, December 9, 2002, ULB.
10. Corinne Feremans: “Generalized Spanning Trees and Extensions”, public defense, September 28, 2001, ULB, LPGD.
11. Inmaculada Rodriguez-Martin : “Extensive facility location problems”, public defense, June 12, 2000, co-direction with Prof. J.A. Moreno Pérez), Universidad de la Laguna, Tenerife, sobresaliente cum laude.
12. Pietro Zidda: “Developing sampling designs for the calibration of store choice models: the case of intercept-and-follow samples” , public defense June 8, 2000, co-direction with Prof. Alain Bultez, Facultés Universitaires Catholiques de Mons.
13. Christelle Wynants: “Network synthesis problems”, public defense June 1, 1999, ULB, LPGD.
14. Bernard Fortz: “Design of survivable networks with bounded rings”, public defense December 7 1998, ULB, LPGD.

15. Anne De Jongh: “Uncapacitated network design and bifurcated routing”, public defense April 20, 1998, ULB, LPGD.
16. Luce Brotcorne: “Approches opérationnelles et stratégiques des problèmes de trafic routier”, public defense March 5, 1998, ULB, LPGD.

## Grants and Awards

- 2006-2011: Action de Recherche Concertée (Communauté française de Belgique): Hard Combinatorial Problems: Geometry and Algorithms
- 2004-2007: Project within the Alfa Program of the cooperation office of the European commission (coordinator: University of Concepcion), Chile: Training support for high level researchers in the combinatorial optimization area.
- 2004-2007: Research project for France Télécom R&D: Partitioning of IP networks.
- 2003-2004: Research project for the company Voice-Insight funded by the Brussels-Capital region: Development of a software to identify a sentence in a given grammar corresponding to a request formulated in a free way.
- 2003-2006: Project Prospective Research In Brussels, funded by the Brussels-Capital Region: Analysis and optimization of intermodal public transportation networks in the Brussels Capital Region.
- 2002-2003: Research project of the Service de Conformation des Macromolécules Biologiques and funded by the Brussels-Capital region: aMAZE database environment for the analysis of cellular processes.
- 2000-2002: Research project for the company A.I.Systems funded by the Brussels-Capital region: Cutting and allocation problems for the production of steel plates.
- 2000-2001: Research project for the company Bluegate funded by the Brussels-Capital region: Strategic planning in the oil industry.
- 2000-2002: Research project for the company STERIA funded by the Brussels-Capital region: 3-D packing and pallet loading (II).
- 2000-2001: Research project for the company SOFRER: Design of wireless local loop networks and connexion with backbone networks.
- 2000-2001: Research project for the company France Télécom R& D: Concentrator location problems with double allocation.
- 2000-2001: Research project for the company Macq Electronique funded by the Brussels-Capital region: Optimization of crossroads.
- 1998-2000: Research project for the company STERIA funded by the Brussels-Capital region: 3-D packing and pallet loading.
- 1998-2000: Research project for the company A.I.Systems funded by the Brussels-Capital region: Operation planning in a steel plant.
- 1998-2000: Research project for the company Bluegate funded by the Brussels-Capital region: Vehicle routing optimization in a multi-depot and dynamic environment(II).
- 1996-1997: Research project for the company Bluegate funded by the Brussels-Capital region: Vehicle routing optimization in a multi-depot and dynamic environment(I).
- 1997-1998: Research project for the company STRATEC funded by the Brussels-Capital region: Development of an integrated system for Park and Ride.
- 1995-1996: Research project for the company A.I.Systems funded by the Brussels-Capital region: Planning of continuous casting and hot rolling in the steel industry (II)

- 1995-1996: Research project for the company A.I.Systems funded by the “Institut pour l’Encouragement de la Recherche Scientifique dans l’Industrie et l’Agriculture”: 2 and 3-D cutting stock problems.
- 1994-1995: Research project for the company A.I.Systems funded by the “Institut pour l’Encouragement de la Recherche Scientifique dans l’Industrie et l’Agriculture”: Planning of continuous casting and hot rolling in the steel industry (I).
- 1994-1997: research project funded by Belgacom: tools for the planning of regional telecommunication networks.
- 1993-1996: Member of a Human Capital and Mobility network funded by the European Economic Community : Models, Algorithms, and Systems for Decision Making.
- 1993-1995: Research project funded by Belgacom: mid term planning of a telecommunication network.
- 1991-1996: Impulse programme “Transport and Mobility” from the Prime Minister’s Services - Science Policy Office: development of a dynamic equilibrium model for traffic congestion.
- 1992-1995: Research project funded Belgacom: long term planning of a telecommunication network.
- 1991: Research fellowship from the European Institute for Advanced Studies in Management (EIASM), Brussels.
- 1989-1990: Research fellowship from the European Institute for Advanced Studies in Management (EIASM), Brussels.
- 1985: Lauréate du concours annuel de la Classe des Sciences de l’Académie Royale de Belgique.
- 1982-1985: Doctoral fellowship from the “Institut pour l’Encouragement de la Recherche Scientifique dans l’Industrie et l’Agriculture”.

## Publication List

1. D. Catanzaro, M. Labbé, R. Pesenti, and J. J. Salazar, “The balanced minimum evolution problem”, *INFORMS Journal on computing*, to appear.
2. S. Garcia, M. Labbé, and A. Marin, “Solving large p-median problems with a radius formulation”, *INFORMS Journal on computing*, to appear.
3. C. Arbib, M. Labbé and M. Servilio (2011), “Scheduling Two Chains of Unit Jobs on One Machine: A Polyhedral Study ”, *Networks Vol.58*, 103-113.
4. C. Feremans, M. Labbé, A. Letchford and J.J.Salazar (2011), “Generalized network design polyhedra”, *Networks Vol.58*, 125-136.
5. G. Heilporn, M. Labbé, P. Marcotte, and G. Savard (2011), “Valid inequalities and Branch-and-Cut for the Clique Pricing Problem”, *Discrete Optimization Vol.8*, 393-410 .
6. D. Catanzaro, M. Labbé, and M. Salazar-Neumann (2011), “Reduction approaches for robust shortest path problems ”, *Computers & Operations Research Vol. 38*, 1610-1619.
7. D. Catanzaro, M. Labbé, and L. Porretta (2011), “A Class Representative Model for Pure Parsimony Haplotyping under Uncertain *PLoS ONE Vol.6,no 3*, 1-10.
8. R. M. V. Figueiredo, M. Labbé, and C. C. de Souza (2011), “An exact approach to the problem of extracting an embedded network matrix”, *Computers & Operations Research Vol. 38*, 1483-1492.
9. D. Catanzaro, E. Gourdin, M. Labbé and F. A. Ozsoy (2011), “A branch-and-cut algorithm for the partitioning-hub location-routing problem”, *Computers & Operations Research Vol. 38*, 539-549.
10. M. Labbé and F. A. Ozsoy (2010), “Size-constrained graph partitioning polytopes”, *Discrete Mathematics Vol. 310*, 3473-3490.
11. G. Heilporn, M. Labbé, P. Marcotte, G. Savard (2010), “A polyhedral study of the Network Pricing Problem with Connected Toll Arcs”, *Networks Vol. 55*, 234-246.
12. D. Catanzaro, A. Godi and M. Labbé (2010), “A Class Representative Model for Pure Parsimony Haplotyping”, *INFORMS Journal on Computing Vol.22*, 195-209.



13. D. Catanzaro, M. Andrien, M. Labbé and M. Toungouz-Neveessignsky (2010), "Computer-aided human leukocyte antigen association studies: a case study for psoriasis and severe alopecia areata", *Human Immunology Vol. 71*, 783-788.
14. G. Heilporn, M. Labbé, P. Marcotte and G. Savard (2010), "A parallel between two classes of pricing problems in transportation and marketing", *Journal of Revenue and Pricing Management Vol. 9*, 110-125.
15. J. Cardinal, M. Labbé, S. Langerman, and B. Palop (2009), "Pricing Geometric Transportation Networks", *International Journal of Computational Geometry and Applications Vol. 19*, 507-520.
16. P. Fouilhoux, M. Labbé, A.R. Mahjoub and H. Yaman (2009), "Generating facets for the independence system polytope", *SIAM Journal on Discrete mathematics Vol. 23*, 1484-1506.
17. D. Catanzaro, and M. Labbé (2009), "The pure parsimony haplotyping problem: Overview and computational advances", *International Transactions in Operational Research Vol. 16*, 561-584.
18. P. Hansen, M. Labbé and D. Schindl (2009), "Set covering and packing formulations of graph coloring: algorithms and first polyhedral results", *Discrete Optimization Vol. 6*, 135-147.
19. D. Catanzaro, M. Labbé, R. Pesenti and J. J. Salazar-Gonzalez (2009), "Mathematical Models to Reconstruct Phylogenetic Trees Under the Minimum Evolution Criterion", *Networks Vol. 53*, 126-140.
20. L. De Giovanni, G. Heilporn and M. Labbé (2008), "Optimization models for the delay management problem in public transportation", *European Journal of Operational Research Vol. 189*, 762-774.
21. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard (2008), "Joint Design and Pricing on a Network", *Operations Research Vol. 56*, 1104-1115 .
22. M. Labbé and H. Yaman (2008), "Solving the hub location problem in a star-star network", *Networks Vol. 51*, 19-33.
23. J. Christophe, S. Dewez, J.-P. Doignon, S. Elloumi, G. Fasbender, P. Grégoire, D. Huygens, M. Labbé, H. Mélot and H. Yaman (2008), "Linear inequalities among graph invariants using *Graphedron* to uncover optimal relationships", *Networks Vol. 52*, 287-298.

24. Paola Bertolazzi, Alessandra Godi, Martine Labbé, Leonardo Tininini (2008), "Solving haplotyping inference parsimony problem using a new basic polynomial formulation", *Computers and Mathematics with Applications*, Vol. 55, 900-911 .
25. S. Dewez, M. Labbé, P. Marcotte, G. Savard (2008), "New formulations and valid inequalities for a bilevel pricing problem", *Operations Research Letters*, Vol. 36, 141-149 .
26. P. Belotti, M. Labbé, F. Maffioli and M. M. Ndiaye (2007), "A branch-and-cut method for the obnoxious  $p$ -median problem", *4OR*, Vol. 5, 299-314.
27. L. Canovas, S. Garcia, M. Labbé and A. Marin (2007), "A strengthened formulation for the simple plant location with order", *Operations Research Letters* Vol. 35, 141-150.
28. D. Huygens, M. Labbé, A. R. Mahjoub and P. Pesneau (2007), "The Two-Edge Connected Hop-Constrained Network Design Problem : Valid Inequalities and Branch & Cut", *Networks* Vol. 49, 116-133.
29. B. Fortz and M. Labbé (2006), "Design of survivable networks", *handbook of Optimization in Telecommunications*, 367-389, M.G.C. Resende and P.M. Pardalos eds., Springer.
30. M. Labbé and H. Yaman (2006), "Polyhedral Analysis for Concentrator Location Problems", *Computational Optimization and Applications* Vol. 34, 377-408.
31. M. Labbé, H. Yaman and E. Gourdin (2005), "A Branch and Cut Algorithm for Hub Location Problems with Single Assignment", *Mathematical Programming*, Vol. 102, 371-405.
32. M. Labbé, G. Laporte, I. Rodriguez Martin, J.J. Salazar (2005), "Locating median cycles in networks", *European Journal of Operational Research*, Vol. 160, 457-470.
33. M. Labbé and H. Yaman (2004), "Projecting the flow variables for hub location problems", *Networks*, Vol. 44, 84-93.
34. W.H. Hamacher, M. Labbé, S. Nickel, and T. Sonneborn (2004), "Adapting Polyhedral Properties from Facility to Hub Location Problems", *Discrete Applied Mathematics*, Vol.145, 104-116.

35. M. Labbé, G. Laporte, I. Rodriguez Martin, J.J. Salazar (2004), "The Ring Star Problem: Polyhedral Analysis and Exact Algorithm", *Networks*, Vol.43, 177-189. **This paper won the 2004 Glover-Klingman Prize for the best paper published in *Networks* during 2004.**
36. S. Elloumi, M. Labbé, and Y. Pochet (2004), "New formulation and resolution method for the  $p$ -center problem", *INFORMS Journal on Computing*, Vol.16, 84-94.
37. M. Labbé, I. Rodriguez Martin and J.J. Salazar (2004), "A Branch-and-Cut Algorithm for the Plant-Cycle Location Problem", *Journal of the Operational Research Society*, Vol. 55, p. 513-520 .
38. C. Feremans, M. Labbé, and G. Laporte (2004), "The Generalized Minimum Spanning Tree Problem: Polyhedral Analysis and Branch-and-Cut Algorithm", *Networks*, Vol.43, 71-86.
39. B. Fortz and M. Labbé (2004), "Two-connected networks with rings of bounded cardinality", *Computational Optimization and Applications*, Vol. 27, 123-148.
40. V. Devloo, P. Hansen and M. Labbé (2003), "'Identification of all steady states in large networks by logical analysis", *Bulletin of mathematical biology*, Vol. 65, 1025-1051.
41. M. Labbé, G. Laporte, and S. Martello (2003), "Upper bounds and algorithms for the maximum cardinality bin packing problem", *European Journal Operational Research*, Vol.149, 490-498 .
42. N. Mladenovic, M. Labbé, and P. Hansen (2003), "Solving the  $p$ -Center Problem with Tabu Search and Variable Neighborhood Search", *Networks* Vol. 42, 48-64.
43. C. Feremans, M. Labbé, and G. Laporte (2003), "Generalized Network Design Problems", *European Journal of Operational Research*, Vol. 148, 1-13.
44. W.H. Hamacher, M. Labbé, S. Nickel, and A.J.V. Skriver (2002),"Multicriteria Semi-obnoxious Network Location Problems (MSNLP) with Sum and Center Objectives", *Annals of Operations Research*, Vol. 110, 33-53.
45. B. Fortz and M. Labbé (2002), "Exact and heuristic algorithms for the design of survivable networks with bounded rings", *Mathematical Programming*, Vol.93, 27-54.

46. L. Brotcorne, D. De Wolf, M. Gendreau, and M. Labbé (2002), "A dynamic user equilibrium model for traffic assignment in urban areas", in *Transportation and network analysis: current trends*, M. Gendreau and P. Marcotte (eds.), *Kluwer Academic Publishers*, 49-69.
47. C. Feremans, M. Labbé, and G. Laporte (2002), "A Comparative Analysis of Several Formulations for the Generalized Minimum Spanning Tree Problem", *Networks, Vol. 39*, 29-34.
48. E. Gourdin, M. Labbé and H. Yaman (2002), "Telecommunication and Location", *Facility Location: Applications and Theory*, Drezner Z. and Hamacher H.W. (Eds.), *Springer*, 275-305.
49. L. Brotcorne, M. Labbé, P. Marcotte, and G. Savard (2001), "A Bilevel Model for Toll Optimization on a Multicommodity Transportation Network", *Transportation Science, Vol. 35*, 345-358.
50. E. Manzi, M. Labbé, G. Latouche and F. Maffioli (2001), "On Fishman's sampling plan for computing network reliability", *IEEE Transactions in reliability, Vol. 50, NO. 1*, 41-46.
51. C. Feremans, M. Labbé, and G. Laporte (2001), "On Generalized Minimum Spanning Trees", *European Journal of Operational Research, Vol. 134*, 457-458.
52. E. Gourdin, M. Labbé, and G. Laporte (2000), "The uncapacitated facility location problem with client matching", *Operations Research, Vol. 48*, 671-685.
53. B. Fortz, M. Labbé, and F. Maffioli (2000), "Two-connected networks with bounded meshes", *Operations Research, Vol. 48*, 866-877.
54. L. Brotcorne, M. Labbé, P. Marcotte, and G. Savard, (2000) "A bilevel model and solution algorithm for a freight tariff setting problem", *Transportation Science, Vol. 34*, 289-302.
55. Labbé, M., Marcotte, P. and Savard G. (2000), "On a class of bilevel programs", in *Nonlinear Optimization and Related Topics*, G. Di Pillo and F. Giannessi (eds.), *Kluwer Academic Publishers*, 183-206.
56. M. Dell'Amico, M. Labbé, and F. Maffioli (1999), "Exact solution for the SONET ring loading problem", *Operations Research letters, Vol. 25*, 119-129.

57. P. Soriano, C. Wynants, R. Séguin, M. Labbé, M. Gendreau, and B. Fortz (1999), “Design and dimensioning of survivable SDH networks” ,in *Telecommunications network planning*, B. Sansò and P. Soriano (eds.), Kluwer Academic Press, 147-167.
58. S.L. Hakimi, M. Labbé, E.F. Schmeichel (1999), “Locations on time-varying networks” , *Networks*, Vol. 34, 250-257.
59. A. De Jongh, M. Gendreau, and M. Labbé (1999), “Finding disjoint routes in telecommunications networks with two technologies” , *Operations Research*, Vol. 47, 81-92.
60. H.W. Hamacher, M. Labbé, and S. Nickel (1999), “Multicriteria network location problems with sum objectives” , *Networks*, Vol. 33, 79-92.
61. M. Labbé, P. Marcotte, and G. Savard (1998), “A bilevel model of taxation and its application to optimal highway pricing” , *Management Science*, Vol. 44, 1608-1622.
62. M. Labbé, G. Laporte, and I. Rodriguez-Martin (1998), “Path, tree, and cycle location” , in *Fleet Management and Logistics*, G. Laporte and T.G. Crainic (eds.), 187-204, Kluwer.
63. M. Labbé, G. Laporte, and P. Soriano (1998), “Covering a graph with cycles” , *Computers and Operations Research*, Vol. 25, 499-504.
64. M. Labbé (1998), “Facility location: models, methods, and applications” , in *Operations Research in Traffic and Transportation Management, Proceedings of the NATO ASI in Balatonfüred*, M. Labbé, G. Laporte, K. Tanczos, and Ph. Toint (eds.), 264-285, Springer Verlag, Heidelberg.
65. B. Fortz, M. Labbé and F. Maffioli (1997), “Methods for designing reliable networks with bounded meshes, in *Teletraffic Contributions for the Information Age*, volume 2a of *Teletraffic Science and Engineering*, V. Ramaswami and P.E. Wirth (eds.), 341-350.
66. M. Labbé and Ph. Toint (1997), “Recherche Opérationnelle et transports” , *Nouvelles de la Science et des Technologies*, Vol.15, 15-29.
67. M. Labbé and F.V. Louveaux (1997), “Location problems” , *Annotated bibliography in Combinatorial Optimization*, 261-281, M. Dell’Amico, F. Maffioli, and S. Martello eds., Wiley.

68. K. Aardal, M. Labbé, J. Leung, and M. Queyranne (1996), “On the two-level uncapacitated facility location problem”, *INFORMS journal on Computing*, Vol. 8, 289-301.
69. M. Dell’Amico, M. Labbé, and F. Maffioli (1996), “Complexity of spanning tree problems with leaf-dependent objectives”, *Networks*, Vol. 27, 175-181.
70. M. Gendreau, M. Labbé, and G. Laporte (1995), “Efficient heuristics for the design of ring networks”, *Telecommunication Systems*, Vol. 4, 177-188.
71. M. Labbé, D. Peeters, and J.-F. Thisse (1995), “Location on networks”, *Handbook in Operations Research and Management Science*, Vol.8: *Network Routing*, 551-624, M. Ball, T. Magnanti, C. Monma, and G. Nemhauser eds.
72. M. Labbé, G. Laporte, and S. Martello (1995), “An exact algorithm for the dual bin packing problem”, *Operations Research Letters*, Vol. 17, 9-18.
73. P. Hansen, M. Labbé, and M. Minoux (1994) “The p-center sum location problem”, *Cahiers du C.E.R.O.*, Vol. 36, 203-220.
74. M. Labbé and G. Latouche (1994), “Mathematical modelling of telecommunication networks”, *Nouvelles de la Science et des Technologies*, Vol. 12, 183-188.
75. J.B.G. Frenk, M. Labbé, M. van Vliet, and S. Zhang (1994), “Improved algorithms for machine allocation in manufacturing systems”, *Operations Research*, Vol. 42, 523-530.
76. M. Labbé, E.F. Schmeichel, and S.L. Hakimi (1994), “Approximation algorithms for the capacitated plant allocation problem”, *Operations Research Letters*, Vol. 15, 115-126.
77. A.I. Barros and M. Labbé (1994), “A general model for the uncapacitated facility and depot location problem”, *Location Science*, Vol. 2, 173-191.
78. A.I. Barros and M. Labbé (1994), “The multi-level uncapacitated facility location problem is not submodular”, *European Journal of Operational Research*, Vol. 72, 607-609.
79. J.B.G. Frenk, M. Labbé, and S. Zhang (1993), “A note on a stochastic location problem”, *Operations Research Letters* Vol. 13, 213-214.
80. S.L. Hakimi, E.F. Schmeichel, and M. Labbé (1993), “ On locating path- or tree-shaped facilities on networks”, *Networks* Vol. 23, 543-555.

81. J. Csirik, J.B.G. Frenk and, M. Labbé (1993), “ Two dimensional rectangle packing: on-line methods and results”, *Discrete Applied Mathematics Vol. 45*, 197-204 .
82. S.L. Hakimi, M. Labbé, and E.F. Schmeichel (1992), “The Voronoi partition of a network and its implications in location theory”, *ORSA journal of Computing, Vol 4*, 412-417.
83. M. Labbé (1992), “The median location problem with continuous demand”, *Cahiers du CERO, Vol. 34*, 103-115.
84. P. Hansen, M. Labbé, and B. Nicolas (1991), “The continuous center set of a network”, *Discrete Applied Mathematics, Vol. 30*, 181-195.
85. P. Hansen, M. Labbé, and J.-F. Thisse (1991), “From the median to the generalized center”, *RAIRO-Operations Research, Vol. 25*, 73-86.
86. M. Labbé, G. Laporte, and H. Mercure (1991), “Capacitated vehicle routing on trees”, *Operations Research, Vol. 39*, 616-622.
87. M. Labbé and S.L. Hakimi (1991), “Market and locational equilibrium for two competitors”, *Operations Research, Vol. 39*, 749-756.
88. M. Labbé, J.-F. Thisse, and R.E. Wendell (1991), “Sensitivity analysis in minisum location problems”, *Operations Research, Vol. 39*, 961-969.
89. J. Csirik, J.B.G. Frenk, M. Labbé, and S. Zhang (1991), “Heuristics for the 0-1 min-knapsack problem”, *Acta Cybernetica Vol. 10*, 15-20.
90. M. Labbé (1990), “Location of an obnoxious facility on a network: a voting approach”, *Networks, Vol. 20*, 197-207.
91. A. de Palma, P. Hansen, and M. Labbé (1990), “Commuters’paths with penalties for early or late arrival time”, *Transportation Science, Vol. 24*, 276-286.
92. J. Csirik, J.B.G. Frenk, M. Labbé, and S. Zhang (1990), “On the multidimensional vector bin packing”, *Acta Cybernetica, Vol. 9*, 361-369.
93. P. Hansen, M. Labbé, and R.E. Wendell (1989), “Sensitivity analysis in multiple objective linear programming: the tolerance approach”, *European Journal of Operational Research, Vol. 38*, 63-69.
94. M. Labbé and J.-F. Thisse (1989), “A tree network has the fixed point property”, *Networks, Vol. 19*, 255-259.

95. P. Hansen and M. Labbé (1989), "The continuous p-median of a network", *Networks, Vol. 19*, 595-606.
96. R. Davidson, M. Dewatripont, V. Ginsburgh, and M. Labbé (1989), "On the welfare effects of anti-discrimination in the EC car market", *International Journal of Industrial Organization, Vol. 7*, 205-230.
97. A. de Palma, V. Ginsburgh, M. Labbé, and J.-F. Thisse (1989), "Competitive location with random utilities", *Transportation Science, Vol. 23*, 244-253.
98. M. Labbé et R.E. Wendell (1988), "Localisation d'un dépôt de camions pour le transport de déchets", *Gestion de l'Entreprise: l'Approche Quantitative*, C.O.R.E. ed., Brussels, De Boeck, 271-284.
99. P. Hansen and M. Labbé (1988), "Algorithms for voting and competitive location on a network", *Transportation Science, Vol. 22*, 278-288.
100. P. Hansen, M. Labbé, D. Peeters, and J.-F. Thisse (1987), "Single facility location on networks", *Annals of Discrete Mathematics, Vol. 31*, 113-146.
101. J. Krarup and M. Labbé (1987), "Optimal Location: minimum versus equilibrium allocation", *Operational Research '87*, G.K. Rand, ed., Amsterdam, North-Holland, 718-729.
102. P. Hansen, M. Minoux et M. Labbé (1987), "Extension de la programmation linéaire généralisée au cas des programmes mixtes", *Comptes Rendus de l'Académie des Sciences de Paris, Vol. 305 (série I)*, 569-572.
103. M. Labbé and G. Laporte (1986), "Maximizing user convenience and postal service efficiency in post box location", *Belgian Journal of Operational Research, Statistics and Computer Science, Vol. 26*, 21-35.
104. H.-J. Bandelt and M. Labbé (1986), "How bad can a voting location be?", *Social Choice and Welfare, Vol. 3*, 125-145.
105. A. de Palma, M. Labbé, and J.-F. Thisse (1986), "On the existence of price equilibria under mill and uniform delivered price policies", in *Spatial Equilibrium and Competition*, G. Norman, ed., London Papers in Regional Science, Vol. 16, 30-42, London, Pion.
106. M. Labbé (1985), "Outcomes of voting and planning in single facility location problems", *European Journal of Operational Research, Vol. 20*, 299-313.
107. M. Labbé (1985), "Essays in network location theory", *Cahiers du C.E.R.O., Vol. 27*, 5-130.



108. M. Labbé (1983), "Solution de Condorcet et médiane dans les réseaux simples", *Cahiers du C.E.R.O.*, Vol. 25, 217-229.
109. M. Labbé (1982), "Equilibre de Condorcet pour le problème de localisation d'une installation polluante", *Cahiers du C.E.R.O.*, Vol. 24, 305-312.

## Books

1. P. Hansen, M. Labbé, D. Peeters, and J.-F. Thisse, "Facility location analysis", *Fundamentals of Pure and Applied Economics*, Vol. 22, 1-70, 1987.

## Edited volumes

1. M. Labbé, J. Paixao and M.G. Speranza (2006), *Optimization in Transportation*, Vol. 144 of Annals of Operations Research, Springer.
2. M. Patricksson and M. Labbé eds. (2002), *Transportation Planning: State of the Art*, Kluwer Academic Publishers.
3. M. Labbé, G. Laporte and S. Martello, Guest editors (2001) *Combinatorial Optimization Symposium*, Special Issue of *Discrete Applied mathematics*, Vol. 112, N 1-3, pp. 1-330.
4. R. Burkard, M. Labbé, M.T. Ramos, and J. Sicilia eds. (2000), *ECCO X: Advances in theory and practice of combinatorial optimization*, special issue of *European Journal of Operational Research*, Vol. 123, 2.
5. M. Labbé, G. Laporte, K. Tanczos, and Ph. Toint eds. (1998), *Operations Research in Traffic and Transportation Management*, NATO ASI Series F: Computer and Systems Sciences, Vol. 166, Springer Verlag, Heidelberg.
6. A. Hertz, D. de Werra, B. Jaumard, and M. Labbé eds.(1994), *Viewpoints on Optimization*, *Discrete Applied Mathematics*, Vol. 49,1-3.
7. F. Louveaux, M. Labbé, and J.-F. Thisse eds.(1989), *Facility Location Analysis: Theory and Applications*, Vol. 18 of Annals of Operations Research, J.C. Baltzers Publishers, Bazel.

## **Submitted for publication**

1. D. Catanzaro, M. Labbé, and R. Pesenti “An exact algorithm for the balanced minimum evolution problem under uncertain data”, October 2011.
2. P. Carroll, B. Fortz, M. Labbé, and S. McGarraghy, “A Branch-and-Cut Algorithm for the Ring Spur Assignment Problem”, September 2011.
3. L. Castelli, M. Labbé, and A. Violin, “ A network pricing formulation for the revenue maximization of european air navigation service providers”, November 2010.
4. M. Salazar-Neumann and M. Labbé, “Robustness in linear programming and the center location”, May 2009.
5. B. Fortz, M. Labbé, F. Louveaux, and M. Poss, “The knapsack problem with gaussian weights”, May 2009.

## Conferences and Meetings

1. International School of Mathematics "Guido Stampacchia", Workshop on Graph Theory, Algorithms and Applications, Erice, Italy, September 2011 - **invited lecturer**.
2. ORP3, Cadiz, Spain, September 2011 - **invited speaker**.
3. AIRO 2011 Conference, Brescia, Italy - **plenary speaker**.
4. OPTIMOS2 Meeting, Granada, Spain, April 2011.
5. Winter School on Network Optimization, Lisbon, Portugal, January 2011 - **invited lecturer**.
6. Network Optimization Workshop, Ajaccio, France, September 2010.
7. 24th European Conference on Operations Research (EURO XXIV), Lisbon, Portugal, July 2010- **keynote speaker**.
8. Seventh Triennial Symposium on Transportation Analysis (TRISTAN VII), Tromsø, Norway, June 2010 - **plenary speaker**.
9. Conférence annuelle du CIRRELT, Québec, Canada, May 2010 - **plenary speaker**.
10. workshop on combinatorial optimization, Aussois, January 2010.
11. BFG'09- 14 th Belgian-French-German Conference on Optimization, Leuven, September 2009 - **invited speaker**.
12. EURO XXIII - 23th European Conference on Operational Research, Bonn, Germany, July 2009.
13. CORAL 2009 - Combinatorial Optimization, Routing and Location Meeting, Elche, Spain, May 2009.
14. INOC 2009- International Network Optimization Conference, Pisa, Italy, April 2009 - **plenary speaker**.
15. SEIO 2009 - XXXI Congreso Nacional de Estadística e Investigación Operativa, Murcia, Spain, February 2009 - **plenary speaker**.
16. Aussois workshop on combinatorial optimization, Aussois, January 2009.
17. VI ALIO/EURO Workshop on Combinatorial Optimization, Buenos Aires, Argentina, December 2008 - **plenary speaker**.

18. Graph and Optimization Meeting, Saint-Maximin La Baume, August 2008.
19. 18th triennial conference of IFORS, the International Federation of Operational Research Societies, Sandton, South Africa, July 2008.
20. Aussois workshop on combinatorial optimization, Aussois, January 2008.
21. SOBRAPO Conference - **plenary speaker**, Fortaleza, Brazil, August 2007.
22. ICIAM 2007 - International Congress on Industrial and Applied Mathematics, Zurich, Switzerland, July 2007.
23. EURO XXII - 22th European Conference on Operational Research, Prague, Czech Republic, July 2007.
24. Sixth Triennial Symposium on Transportation Analysis (TRISTAN VI), Phuket, Thailand, June 2007.
25. INOC - International Network Optimization Conference, Spa, Belgium, April 2007.
26. AIRO Winter conference 2007 - **plenary speaker**, Cortina, Italy, February 2007.
27. Aussois workshop on combinatorial optimization, Aussois, January 2007.
28. EURO Winter Institute on Location and Logistics - **invited speaker**, Estoril, Portugal, January 2007.
29. CLAIO - XIII Congreso Latino-Iberoamericano de Investigación Operativa, Montevideo, Uruguay, November 2006.
30. Toyota Central R&D Labs. Workshop "Decision making and uncertainty in nonlinear complex systems - **invited speaker**, Helsingor, Denmark, November 2006.
31. Journée Optimisation des Réseaux - **invited speaker**, Paris, October 2006.
32. Workshop on Network Optimization - **invited speaker**, Lambrecht, October 2006.
33. Operations Research 2006, **semi-plenary speaker**, Karlsruhe, September 2006.
34. Network Optimization Workshop 2006, Saint Rémy de Provence, August 2006.
35. EURO XXI, Reykjavik, July 2006.

36. Odysseus 2006, third international workshop on freight transportation and logistics, May 2006.
37. FIMA international conference, Champoluc, January 2006.
38. Aussois workshop on combinatorial optimization, Aussois, January 2006 .
39. 17th triennial conference of IFORS, the International Federation of Operational Research Societies, Hawaii, July 2005.
40. Colloque du 10ème anniversaire du LAMIH- **plenary speaker**, Université du Mont Houy de Valenciennes, France, March 2005.
41. Aussois workshop on combinatorial optimization, Aussois, March 2005.
42. AIRO winter conference- **plenary speaker**, Cortina, Italy, February 2005.
43. ORBEL, conference of the Belgian Operations Research Society, January 2005.
44. TraLog, Transportation and Logistics conference - **plenary speaker**, Molde, Norway, August 2004.
45. European Congress on Operational Research (EURO XX), Rhodes, Greece, July 2004.
46. Triennial Symposium on Transportation Analysis (TRISTAN V), Le Gosier, Guadeloupe, June 2004.
47. INFORMS/CORS conference, Banff, Canada, May 2004.
48. Deuxième journée du groupe de travail en programmation Mathématique - **invited speaker**, CNAM, Paris, April 2004.
49. AIRO winter conference, Champoluc, Italy, February 2004.
50. Aussois workshop on combinatorial optimization, Aussois, January 2004.
51. ORP3 - **plenary speaker**, Lambrecht, Germany, September 2003.
52. International Symposium on Mathematical Programming, Copenhagen, August 2003.
53. EURO/IFORS conference, Istanbul, July 2003.
54. Aussois workshop on combinatorial optimization, Aussois, February 2003.
55. AIRO winter conference - **plenary speaker**, Champoluc, Italy, February 2003.

56. Workshop "Distribution Systems: Location and Vehicle Routing" - **invited speaker**, Montreal, December 2002.
57. Nordic Mathematical Programming Symposium - **plenary speaker**, Bergen, September 2002.
58. Euro Working Group on Transportation, Bari, June 2002.
59. France Télécom R & D - 6th Optimization Seminar - **plenary speaker**, April 2002.
60. Combinatorial Optimization 2002 - **plenary speaker**, April 2002.
61. Internationale Conference on Optimization - SIGOPT - Deutsche Mathematiker Vereinigung - **plenary speaker**, Lambrecht, February 2002.
62. Aussois workshop on combinatorial optimization, Aussois, January 2002.
63. Mathematical Methods in Manufacturing and Logistics, Mathematisches Forschungsinstitut Oberwolfach, December 2001.
64. AIRO Conference, Cagliari, September 2001.
65. First Joint Meeting of the Belgian and German Mathematical Societies, Liège, June 2001.
66. Triennial Symposium on Transportation Analysis (TRISTAN IV), Sao Miguel, Portugal, June 2001.
67. CRM-MITACS Spring School of Optimization - **plenary speaker**, Montreal, May 2001.
68. Workshop on Telecommunications Applications, Rome, May 2001.
69. Aussois workshop on combinatorial optimization, Aussois, March 2001.
70. INFORMS conference, San Antonio, November 2000.
71. Deutsche Mathematiker-Vereinigung, Dresden, September 2000.
72. GO IV: Fourth International Colloquium on Graphs and Optimization, Leukerbad, August 2000.
73. Aussois workshop on combinatorial optimization, Aussois, March 2000.
74. Deuxième Ecole d'Hiver des Télécommunications de Sophia-Antipolis - **plenary speaker**, December 1999.

75. ALIO-EURO meeting on Practical Combinatorial Optimization - **plenary speaker**, November 1999.
76. EIDMA Lustrum Congress, Mierlo, October 1999.
77. IFORS conference, Beijing, August 1999.
78. International Symposium on Locational Decisions VIII (ISOLDE VIII), Coimbra, June 1999.
79. Aussois workshop on combinatorial optimization, Aussois, mars 1999.
80. Triennial Symposium on Transportation Analysis (TRISTAN III), Puerto Rico, June 1998.
81. Combinatorial Optimization 98, Bruxelles, April 1998.
82. Aussois workshop on combinatorial optimization, Aussois, February 1998.
83. INFORMS conference, Dallas, October 1997.
84. International Symposium on Mathematical Programming, Lausanne, August 1997.
85. European Chapter on Combinatorial Optimization (ECCO)- **plenary speaker**, Tenerife, May 1997.
86. NATO advanced study institute, Balatonfured, March 1997.
87. C.R.T. Colloquium Fleet Management and Logistics, Montreal, February 1997.
88. Journées de l'Optimisation - **plenary speaker**, Montreal, May 1996.
89. Aussois workshop on combinatorial optimization, Aussois, January 1996.
90. INFORMS national meeting, New Orleans, October 1995.
91. SVOR/ASRO Tutorial "New OR Technologies for Transportation and Facility Location" - **plenary speaker**, Thoun, September 1995.
92. Metaheuristic International Conference, Breckenridge, Colorado, July 1995.
93. EURO Summer Institute on Locational Analysis, Tenerife, June 1995.
94. Journées de l'Optimisation, Montreal, May 1995.
95. EURO Summer Institute on Combinatorial Optimization, Jouy-en-Josas, July 1994.

96. Triennial Symposium on Transportation Analysis (TRISTAN II), Capri, June 1994.
97. TIMS/ORSA joint national meeting, Boston, April 1994.
98. Troisième Cycle Romand de Recherche Opérationnelle - **plenary speaker**, Grimentz, Switzerland, March 1994.
99. International Symposium on Locational Decisions VI (ISOLDE VI), Chios, Greece, June 1993.
100. EURO working group on Combinatorial Optimization, Bruxelles, April 1993.
101. EURO working group on Combinatorial Optimization, Graz, April 1992.
102. TIMS/ORSA joint national meeting, Anaheim, November 1991.
103. Colloque “Développements récents en recherche opérationnelle: Etat de l’art”, Institut des Hautes Etudes de Belgique, Bruxelles, November 1991.
104. Rencontres franco-suissees de Recherche Opérationnelle, Paris, September 1991.
105. Triennial Symposium on Transportation Analysis (TRISTAN I), Montreal, June 1991.
106. Journée AFCET sur l’enseignement de la recherche opérationnelle, Paris, January 1991.
107. Viewpoints on Optimization, Grimentz, Suisse, September 1990.
108. International Symposium on Locational Decisions V (ISOLDE V), Los Angeles, June 1990.
109. Euro Working Group on Combinatorial Optimization, Barcelona, May 1990.
110. National Congress on Methods for Decision Making (ORBEL), Bruxelles, January 1990.
111. World Conference on Transportation Research (WCTR ’89), Yokohama, July 1989.
112. Advanced Research Institute on Discrete Applied Mathematics IV, RUTCOR, Rutgers University, New Brunswick, May-June 1989.
113. Journées de l’Optimisation, Montreal, May 1989.
114. TIMS/ORSA/CORS joint national meeting, Vancouver, May 1989.



115. Euro Working Group on Combinatorial Optimization, Venice, March 1989.
116. Journées franco-québécoises sur la logistique des transports, Montréal, December 1988.
117. EURO/TIMS joint international conference, Paris, July 1988.
118. Advanced Research Institute on Discrete Applied Mathematics III, RUTCOR, Rutgers University, New Brunswick, May-June 1988.
119. TIMS/ORSA joint national meeting, Washington, April 1988.
120. Journée du groupe combinatoire de l'AF CET, Paris, June 1987.
121. International Symposium on Locational Decisions IV (ISOLDE IV), Namur, June 1987.
122. Advanced Research Institute on Discrete Applied Mathematics I, RUTCOR, Rutgers University, New Brunswick, May 1986.
123. TIMS/ORSA joint national meeting, Los Angeles, April 1986.
124. Annual Conference of the German OR Society (DGOR), Hamburg, September 1985.
125. International Symposium on Mathematical Programming, Boston, August 1985.
126. European Congress on Operational Research (EURO VII), Bologna, June 1985.
127. Journées de l'Optimisation, Montreal, May 1985.
128. Polish-Danish Mathematical Programming Seminar (DAPS 85), Copenhagen, mai 1985.
129. TIMS/ORSA joint national meeting, Boston, April-May 1985.
130. EURO Summer Institute on Location Theory, Bruxelles, August 1984.
131. International Symposium on Locational Decisions (ISOLDE III), Boston, June 1984.
132. National Congress on Methods for Decision Making (ORBEL), Bruxelles, December 1983.
133. Colloque "Temps et Devenir", Cerisy-La-Salle, June 1983.

134. Colloque “Graphes: Localisation et régionalisation”, Institut des Hautes Etudes de Belgique, Bruxelles, April 1983.

## Seminars

1. Seminar of the Computer Science Department, Wroclaw University , October 2011
2. Seminar of the Computer Science Institute, University of Szeged, June 2011
3. Seminario de la Red Investifacion de operaciones para Sistemas de Transporte, Santiago, Chile, December 2010.
4. Conference in memory of Prof. Lázaro Cánovas, Universidad de Murcia, Spain, October 2006.
5. Seminar of ECARES, Université Libre de Bruxelles, March 2004.
6. Séminaire de Recherche Opérationnelle, Ecole Polytechnique Fédérale de Lausanne, December 2003.
7. Seminar of the Facultad de Matemáticas, Universidad de Murcia, Spain, October 2003.
8. Seminar of the Facultad de Matemáticas, Universidad de Valencia, Spain, October 2003.
9. Seminar of the Facultad de Matemáticas, Universidad de la Laguna, Tenerife, April 2003.
10. Séminaire de Recherche Opérationnelle, Ecole Polytechnique Fédérale de Lausanne, February 2003.
11. Seminar of the Computer Sceince Department, Università di Pisa, June 2002.
12. Séminaire de Recherche Opérationnelle, Ecole Polytechnique Fédérale de Lausanne, February 2002.
13. Seminar of the Facultad de Matemáticas, Universidad de la Laguna, Tenerife, April 2001.
14. Seminarium i optimeringslära, Linköpings Universitet, April 2001.
15. Seminar of DEIS, Università degli Studi di Pisa, February 2001.
16. Colloquium of the Mathematics Department, University of Kaiserslautern, April 2000.
17. Seminar of the Mathematics department, University of Sevilla, February 2000.

18. Seminar of LIMOS, Université Blaise Pascal - Clermont II, Clermont-Ferrand, May 1999.
19. Seminar of the Facultad de Matemáticas, Universidad de la Laguna, Tenerife, April 1999.
20. Trondheim Seminar on Industrial Economics and Operations Research, Norwegian University of Science and Technology, Trondheim, March 1999.
21. Seminar of the Facultad de Matemáticas, Universidad de la Laguna, Tenerife, June 1998.
22. Seminarium i optimeringslära, Linköpings Universitet, November 1997.
23. Séminaire Université de Versailles - Saint Quentin et INRIA, November 1997.
24. Mathematical Programming Seminar, CORE, Université Catholique de Louvain, May 1997.
25. Seminar of the Facultad de Matemáticas, Universidad de la Laguna, Tenerife, June 1996.
26. Séminaire du CREER, FUCAM, Mons, April 1996.
27. Séminaire du GEMME, Université de Liège, March 1996.
28. Groupe de contact FNRS "Modèles mathématiques en sciences humaines", Brussels, December 1995.
29. Seminar of the Mathematics department, University of Kaiserslautern, December 1995.
30. Seminar of the Centre de Recherche sur les Transport, Université de Montréal, December 1993.
31. Seminar of the department of Operations Research, Rijksuniversiteit Limburg, Maastricht, June 1993.
32. Séminaire du laboratoire MASI, Université Pierre et Marie Curie, Paris, March 1993.
33. Seminar of the Departamento de Estatística e Investigacao Operational, Universidade de Lisboa, April 1992.
34. Séminaire AGIR, Département de Mathématiques, Facultés Universitaires Notre-Dame de la Paix, Namur, February 1992.

35. Séminaire en recherche opérationnelle, Département de mathématiques de l'École Polytechnique Fédérale de Lausanne, January 1992.
36. Interuniversity third cycle program on mathematical programming, Bruxelles, November 1991.
37. Mathematical Programming Seminar, CORE, Université Catholique de Louvain, March 1990.
38. Seminar of the Departamento de Estatística e Investigação Operacional, Universidade de Lisboa, April 1990.
39. Seminar of the Centro de Matemática, Universidade de Coimbra, April 1990.
40. Séminaire du Centre d'Économie Mathématique et d'Économétrie, Université Libre de Bruxelles, March 1990.
41. Séminaire du LAMSADE, Université de Paris Dauphine, December 1989.
42. Joint seminar of the departments of Industrial Engineering and Engineering Management and of Engineering-Economic Systems, Stanford University, May 1989.
43. Séminaire d'Analyse Numérique, Université de Bourgogne, Dijon, April 1989.
44. Colloquium, Econometric Institute, Erasmus University Rotterdam, April 1989.
45. Séminaire du Centre de Recherche sur les Transport, Université de Montréal, December 1988.
46. Seminar of the department of Industrial Engineering and Operations Research, University of Columbia, New York, New York, May 1988.
47. Mathematical Programming Seminar, CORE, Université Catholique de Louvain, October 1987.
48. Colloquium, Econometric Institute, Erasmus University, Rotterdam, June 1987.
49. Operations Research Seminar, Datalogistik Institute, University of Copenhagen, Denmark, May 1987.
50. Séminaire de la Faculté des Sciences Économiques et de Gestion, Université Louis Pasteur, Strasbourg, May 1987.
51. Operations Research Colloquium, Department of Mathematics, University of Aarhus, Denmark, April 1987.

52. Colloquium, Institut de Recherche Mathématique Avancée, Université Louis Pasteur, Strasbourg, March 1987.
53. Joint seminar in Transportation Engineering and in Urban and Regional Planning, Northwestern University, Evanston, Illinois, February 1987.
54. Seminar of Operations Research, Graduate School of Industrial Administration, Carnegie Mellon University, Pittsburgh, Pennsylvania, February 1987.
55. Séminaire du GERAD, Ecole des Hautes Etudes Commerciales, Montréal, January 1987.
56. Séminaire du Centre de Recherche sur les Transports, Université de Montréal, January 1987.
57. Operations Research Colloquium, Rutgers Center for Operations Research (RUTCOR), Rutgers University, New Brunswick, New Jersey, April 1986.
58. Séminaire du GERAD, Ecole des Hautes Etudes Commerciales, Montreal, April 1986.
59. Seminar of the Department of Humanities and Social Sciences, California Institute of Technology, Pasadena, California, April 1986.
60. Séminaire d'Analyse Numérique de l'Université de Bourgogne, Dijon, February 1986.
61. Operations Research Colloquium, Rutgers Center for Operations Research (RUTCOR), Rutgers University, New Brunswick, New Jersey, November 1985.
62. Seminar of the School of Management and Statistical Management and Information Sciences Department, Rensselaer, Polytechnic Institute, Troy, New York, November 1985.
63. Department of Economics, Queen's University, Kingston, Ontario, May 1985.
64. Operations Research and Statistics seminar, Rensselaer Polytechnic Institute, Troy, New York, May 1985.
65. Séminaire de Mathématiques Discrètes et Sciences Sociales, Paris, February 1984.
66. Séminaire d'Analyse des Données, ENST, Paris, February 1984.

## Editorial duties

**Associate editor** for the following journals:

1. *Cahiers du CERO*, 1985-1997,
2. *Discrete Optimization*, 2004- 2007,
3. *Journal of Combinatorial Optimization*, 1999- 2005,
4. *Location Science*, 1993-1998,
5. *Operations Research*, 1996- 2005,
6. *Operations Research Letters*, 1992- 2003,
7. *Rivista di Informatica*, 1994-2001 ,
8. *Transportation Science*, 1993- 2007.

**Member of the Advisory board** for *Transportation Science*, 2008- .

**Editor-in-Chief** of the *EURO Journal on Computational Optimization*, 2011-

## Strategic and selection committees

1. Member of the review panel for the DFG Research Centre 86 “MATHEON: Mathematics for Key Technologies: Modelling, Simulation and Optimization of Real-World Processes”, 2010.
2. Member of the Comité d’orientation scientifique (COS) du Centre interuniversitaire de recherche sur les réseaux d’entreprise, la logistique et le transport (CIRRELT) (2008-2010 and 2011-2013).
3. Member of the CISIT (International Campus on Safety and Intermodality in Transportation) International Scientific Committee, Université de Valenciennes et du Haut -Cambrésis, 2008- .
4. Member of the committee for the selection of “chargés de recherche ” at INRIA Futur, Lille, 2007 and 2008.
5. Member of the selection committee of Vienna Science and Technology Fund (WWTF) programme “Mathematics and ....”, 2007.

6. Member of the evaluation committee of the LIMOS (Clermont-Ferrand), Mixed Research Unit 6158 of CNRS (2006).
7. Member of the committee in charge of the evaluation of research teams of the France Telecom R&D division (2002 and 2005).
8. Member of the NSERC Industrial Engineering Grant Selection Committee (1994-1997).
9. Member of the “Transportation Science Section Dissertation Prize” selection committee (INFORMS, 1994, 1995, and 1997 (chair)).
10. Member of the “ Chapter on Locational Analysis Dissertation Prize” selection committee (TIMS, 1992).



## Program committees and conference organizations

- **Member of the Program Committee** for the following conferences:
  1. ICORES 2012, Vilamoura, Portugal, February 2012.
  2. EWGLA meeting, Nantes, France, October 2011.
  3. ORP3, Cadiz, Spain, September 2011.
  4. INOC 2011, Hamburg, Germany, June 2011.
  5. Algotel 2011, Cap Estrel, France, May 2011.
  6. ROADEF 2011, Saint-Etienne, France, March 2011.
  7. Seventh Triennial Symposium on Transportation Analysis (TRISTAN VII), Tromso, Norway, June 2010.
  8. ROADEF 2010, Toulouse, France, February 2010.
  9. Odysseus 2009, third international workshop on freight transportation and logistics, Izmir, May 2009.
  10. Sixth Triennial Symposium on Transportation Analysis (TRISTAN VI), Phuket Island, June 2007.
  11. International Network Optimization Conference (INOC 2007), Spa, April 2007.
  12. CLAIO - XIII Congreso Latino-Iberoamericano de Investigación Operativa, Montevideo, Uruguay, November 2006.
  13. Odysseus 2006, third international workshop on freight transportation and logistics, Altea, May 2006.
  14. International Network Optimization Conference (INOC 2005), Lisbon, March 2005.
  15. quatrièmes journées francophones de recherche opérationnelle (FRAN-CORO IV), Fribourg, Août 2004.
  16. Fifth Triennial Symposium on Transportation Analysis (TRISTAN V), Le Gosier, Guadeloupe, June 2004.
  17. Algo Tel 2004, Sixièmes Rencontres Francophones sur les Aspects Algorithmiques des Tlcommunications, Batz-sur-mer, May 2004.
  18. Combinatorial Optimization 2000, Greenwich, July 2000.
  19. ODYSSEUS 2000, The First International Workshop on Freight Transportation and Logistics, May 2000.
  20. Algo Tel, Deuxièmes Rencontres Francophones sur les Aspects Algorithmiques des Tlcommunications, La Rochelle, May 2000.

21. ROADEF'2000, Nantes, January 2000.
22. IFORS conference, Pékin, August 1999.
23. International Conference on Operations Research, OR 98, Zurich, September 1998.
24. EURO group in Transportation, Göteborg, September 1998.
25. Third Triennial Symposium on Transportation Analysis (TRISTAN III), Puerto Rico, June 1998.
26. EURO group in location analysis (EWGLA), Murcia, February 1998.
27. Metaheuristics International conference (MIC-95), Colorado, July 1995.
28. Second Triennial Symposium on Transportation Analysis (TRISTAN II), Capri, June 1994.
29. International Symposium on Mathematical Programming, Amsterdam, August 1991.
30. EURO XI Conference, Aix-La-Chapelle, June 1991.
31. First Triennial Symposium on Transportation Analysis (TRISTAN I), Montreal, June 1991.
32. AFCET Conference on the Practice and Theory of Operations Management, Paris, December 1989.
33. International Symposium on Locational Decisions (ISOLDE IV), Namur, June 1987.

• **Conference organizations:**

1. Triennial conference of the International Federation of Operations Research Societies (IFORS 2005) - **Program chair**, Hawaii, July 2005.
2. Fourth Triennial Symposium on Transportation Analysis (TRISTAN IV), Sao Miguel, Portugal, June 2001.
3. Combinatorial Optimization 98 (CO98), Bruxelles, May 1998.
4. "Workshop on Operations Research/Microeconomics Interfaces", European Institute for Advanced Studies in Management (EIASM), Brussels, January 1990.
5. "Workshop on Logistics: Transportation and Distribution", European Institute for Advanced Studies in Management (EIASM), Bruxelles, May 1992.
6. European Chapter on Combinatorial Optimization (ECCO VI), Bruxelles, April 1993.

## Academic visits

- **Visiting Professor** at the department of Statistics and Operations Research, University of Murcia, April 2006.
- **Visiting Professor** at the faculty of Statistics and Operations Research of the Polytechnic University of Catalunya, Barcelona, May 2005.
- **Visiting Professor** at the Politecnico di Torino, January 2005.
- **Visiting Professor** at DEIS, Università di Bologna, section of Cesena, May 2004.
- **Invited professor** by the "Scuola Matematica Interuniversitaria" at the Summer Doctoral school of Cortona, August 2002.
- **Visiting professor** at the Università di Pisa, May-June 2002.
- **Visiting professor** at DEIS, Università di Bologna, May 2002.
- **Visiting professor** at the Département de Mathématiques, Ecole Polytechnique Fédérale de Lausanne, February-March 2002.
- **Visiting professor** at the DEIOC, Universidad de La Laguna, September to December 2001.
- **Opponent** for the Ph.D. defense of Di Yuan, Linköping University, April 2001.
- **Visiting professor** at the Università di Pisa, February 2001.
- **Sofia-Kovalevkaia Gastprofessorin** at the Mathematics department of the University of Kaiserslautern, Summer semester 2000.
- **Visiting professor** at the Università di Bologna, December 1999.
- **Main opponent** for the Ph.D. defense of Nina Detlefsen, University of Science and Technology, Trondheim, March 1999.
- **Visiting professor** at the Università di Bologna, May 1998.
- **Visiting professor** at the Département de Mathématiques, Facultés Universitaires Notre-Dame de la Paix, Namur (1993-1994).
- **Visiting professor** at the Laboratoire MASI, Université Pierre et Marie Curie, Paris, September 1991.

- **Visiting researcher** at the Department of Electrical Engineering and Computer Science, University of California at Davis ( July and August 1987, July 1988, May 1989, June 1990, November 1991, August 1992, November 1992).
- **Visiting professor** at the “Laboratoire d’Analyse Numérique”, Université de Dijon, April 1989.

## **Other professional activities**

- **IFORS Vice-president** representing EURO, the Association of European Operational Research Societies, 2009-2011.
- **President** of EURO, the Association of European Operational Research Societies, 2007-2008.
- **President elect** of EURO, the Association of European Operational Research Societies, 2006.
- **Vice-president (international affairs)** of INFORMS (2000-2001).
- **Secretary/treasurer** of the College on Location Analysis (TIMS, 1991-1993).