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Short biography

- 2003. Habilitation thesis from Université Paris-Dauphine.
- 1998. Ph.D. degree in Computer Science and Operations Research from Université Paris-Dauphine.

Research interests

Algorithmic Game Theory, Approximation of hard problems, Combinatorial Optimization, Complexity Theory, Multicriteria Optimization, Reoptimization, Robust problems, and more generally in Operations Research.

Ongoing projects

- Project ANR Jeunes Chercheuses / Jeunes Chercheurs (2009-2013) entitled COCA (Combinatorial Optimization for Competing Agents).
- Project ANR Blanc (2009-2013) entitled TODO (Time versus Optimality in Discrete Optimization).
- Project ANR Blanc (2009-2013) entitled GUEPARD (GUaranteed Efficiency for PAREto optimal solutions Determination in multiobjective combinatorial optimization problems).
- Bilateral Project PHC BOSPHORE (Turkey - France) (2012-2014) entitled The selective graph coloring problem.

Bibliography

Thesis :

- (1) J. Monnot, *Approximation polynomiale : du rapport standard au rapport différentiel*, Habilitation à diriger les recherches, Université Paris-Dauphine, 2003.
- (2) J. Monnot, *Familles d'instances critiques et approximation polynomiale*, Phd Thesis Université Paris-Dauphine, 1998.

Book :

- (1) J. Monnot, V. Th. Paschos, and S. Toulouse, *Approximation polynomiale des problèmes NP-difficiles : optima locaux et rapport différentiel*, Informatique et Systèmes d'Information, Hermès, Paris, 2003.

book chapters :

- (1) L. Gourvès, J. Monnot, and O. Telelis, *Strategic Scheduling Games : Equilibria and Efficiency* Chapter 10 of Just-in-Time Systems pages 209-244, R.Z. Ryos-Mercado and Y.A. Ryos-Solys (eds.), Springer Optimization and Its Applications, 60, 2011.
- (2) M. Milanic, and J. Monnot, *The complexity of the exact weighted independent set*, Chapter 16 of Combinatorial Optimization - Theoretical Computer Science : interfaces and Perspectives, Wiley-ISTE, 393-432, 2008.
- (3) J. Monnot, and S. Toulouse, *Bounded-size path packing problems*, Chapter 18 of Combinatorial Optimization - Theoretical Computer Science : interfaces and Perspectives, Wiley-ISTE, 455-498, 2008.
- (4) J. Monnot *The Labeled perfect matching in bipartite graphs : complexity and (in)approximability*, Chapter 17 of Combinatorial Optimization - Theoretical Computer Science : interfaces and Perspectives, Wiley-ISTE, 433-454, 2008.
- (5) M. Demange, B. Escoffier, G. Lucarelli, I. Milis, J. Monnot, V. Th. Paschos, and D. de Werra, *Weighted Edge Coloring*, Chapter 11 of Combinatorial Optimization - Theoretical Computer Science : interfaces and Perspectives, Wiley-ISTE, 291-318, 2008.
- (6) M. Demange, B. Escoffier, J. Monnot, V. Th. Paschos, and D. de Werra, *Complexity and approximation results for the Min Weighted Node Coloring problem*, Chapter 10 of Combinatorial Optimization - Theoretical Computer Science : interfaces and Perspectives, Wiley-ISTE, 259-290, 2008.
- (7) E. Angel, E. Bampis, L. Gourvès, and J. Monnot, *Approximation of Multi-criteria Min and Max TSP(1,2)*, Chapter 2 of Combinatorial Optimization - Theoretical Computer Science : interfaces and Perspectives, Wiley-ISTE, 37-70, 2008.
- (8) J. Monnot, and S. Toulouse, *Le voyageur de commerce et ses variations : un tour d'horizon de ses résolutions*, Chapitre 2 du Livre Optimisation Combinatoire, Volume V, Hermès, 51-94, 2007.
- (9) M. Demange, and J. Monnot, *Une introduction aux problèmes combinatoires inverses*, Chapitre 5 du Livre Optimisation Combinatoire volume II concepts avancés, 181-220, Hermès, 2005.

International conference (with proceeding) :

- (1) M. Demange, J. Monnot, P. Pop and B. Ries *Selective Graph Coloring in Some Special Classes of Graphs*, ISCO 12, LNCS, 2012. (to appear).
- (2) N. Boria, J. Monnot, and V. Pascos *Reoptimization of maximum induced hereditary subgraph problem*, LATIN 12, LNCS 7256, 73-84, 2012.
- (3) N. Boria, J. Monnot, and V. Pascos *Reoptimization of the maximum weight P_k -free subgraph under vertex insertion*, Proc. WALCOM 12, LNCS 7157, 76-87, 2012.
- (4) C. Bazgan, L. Gourvès, J. Monnot, and F. Pascual *Single approximation for Biobjective Max TSP*, Proc. WAOA 11, LNCS 7164, , 2011 (to appear).
- (5) C. Bazgan, L. Gourvès, and J. Monnot, *Approximation with a fixed number of solutions of some biobjective maximization problems*, Proc. WAOA 11, LNCS 7164, 233-246, 2011.
- (6) B. Escoffier, L. Gourvès, and J. Monnot, *The Price of Optimum in a Matching Game*, Proc. SAGT 11, LNCS 6982, 81-92, 2011.
- (7) Y. Chevaleyre, J. Lang, N. Maudet, and J. Monnot, *Compilation and communication protocols for voting rules with a dynamic set of candidates*, Proc. TARK, 153-160, 2011.
- (8) L. Xia, J. Lang, and J. Monnot, *Possible Winners When New Alternatives Join : New Results Coming Up!*, In Proceedings of the 10th International Conference on Autonomous Agents and Multiagent Systems, IFAAMAS, 829-836, 2011.
- (9) L. Xia, J. Lang, and J. Monnot, *Possible Winners When New Alternatives Join : New Results Coming Up!*, Proc. COMSOC 10, 199-210 2010.
- (10) L. Alfandari and J. Monnot, *Approximation of the Clustered Set Covering Problem*, Proc. ISCO 10, Electronic Notes in Discrete Mathematics, 36(1), 479-485, 2010.
- (11) Y. Chevaleyre, J. Lang, N. Maudet, and J. Monnot, *Possible winners when new candidates are added : the case of scoring rules*, Proc. of the 24th AAAI Conference on Artificial Intelligence (AAAI-2010), 2010.
- (12) L. Gourvès, A. Lyra, C. Martinhon, and J. Monnot, *Complexity of paths, trails and circuits in arc-colored digraphs*, Proc. TAMC 10, LNCS 6108, 222-233, 2010.
- (13) L. Gourvès, and J. Monnot, *The Max k-Cut Game and its Strong Equilibria*, Proc. TAMC 10, LNCS 6108, 234-246, 2010.
- (14) B. Escoffier, L. Gourvès, and J. Monnot, *On the impact of local taxes in a set cover game*, Proc. SIROCCO 10, LNCS 6058, 2-13, 2010.
- (15) B. Escoffier, L. Gourvès, and J. Monnot, *Strategic Coloring of a Graph*, Proc. CIAC. 10, LNCS 6078, 155-166, 2010.
- (16) H. Chatti, L. Gourvès, and J. Monnot, *On a Labeled Vehicle Routing Problem*, Proc. SOFSEM. 10, LNCS 5901, 271-282, 2010.
- (17) M. Milanic and J. Monnot, *The Exact Weighted Independent Set Problem in Perfect Graphs*, Proc. LAGOS 09, Electronic Notes in Discrete Mathematics, 35, 317-322, 2009.
- (18) L. Gourvès, A. Lyra, C. Martinhon, J. Monnot, and F. Protti, *On s-t paths and trails in edge-colored graphs*, Proc. LAGOS 09, Electronic Notes in Discrete Mathematics, 35, 221-226, 2009.

- (19) L. Gourvès, and J. Monnot, *On strong equilibria in the Max Cut Games*, Proc. WINE. 09, LNCS 5929, 608-615, 2009.
- (20) L. Gourvès, J. Monnot, and O. Telelis, *Selfish Scheduling with Setup times*, Proc. WINE. 09, LNCS 5929, 292-303, 2009.
- (21) L. Gourvès, A. Lyra, C. Martinhon, and J. Monnot, *The minimum reload s-t path/trail/walk problems*, Proc.SOFSEM. 09, LNCS 5404,621-632, 2009.
- (22) L. Gourvès, and J. Monnot, *Three selfish spanning tree games*, Proc. WINE. 08, LNCS 5385, 465-476, 2008.
- (23) B. Couetoux, L. Gourvès, J. Monnot, and O. Telelis, *On Labeled Traveling Salesman Problems*, Proc. ISAAC. 08, LNCS 5369, 776-787, 2008.
- (24) L. Gourvès, J. Monnot, and F. Pascual, *Cooperation in multiorganization matching*, Proc. WAOA. 08, LNCS 5426, 78-91, 2008.
- (25) B. Escoffier, J. Monnot, and O. Spanjaard, *Some tractable instances of interval data minmax regret problems : bounded distance from triviality*, Proc. SOFSEM. 08, LNCS 4910, p : 280-291, 2008.
- (26) A. Giannakos, L. Gourvès, J. Monnot, and V. Th. Paschos, *On the performance of congestion games for optimum satisfiability problems*, Proc. WINE. 07, LNCS 4858, 220-231, 2007.
- (27) B. Escoffier, L. Gourvès, and J. Monnot, *Complexity and approximation results for the connected vertex cover problem*, Proc. WG. 07, LNCS 4769, 202-213, 2007.
- (28) R. Hassin J. Monnot, and D. Segev, *The Complexity of Bottleneck Labeled Graph Problems*, Proc. WG. 07, LNCS 4769, 328-340, 2007.
- (29) J. Monnot, and S. Toulouse, *The P_k partition problem and related problems in bipartite graphs*, Proc. SOFSEM. 07, LNCS 4362, 422-433, 2007.
- (30) R. Hassin, J. Monnot, and D. Segev, *Approximation Algorithms and Hardness Results for Labeled Connectivity Problems*, Proc. MFCS.06, LNCS 4162, 480-491, 2006.
- (31) G. Ausiello, B. Escoffier, J. Monnot, and V. Th. Paschos, *Reoptimization of minimum and maximum traveling salesman's tours*, Proc. SWAT. 06, LNCS 4059, 196-207, 2006.
- (32) J. Monnot, and S. Toulouse, *The complexity of the P_k partition problem and related problems in bipartite graphs*, AACC 2005 (Asian Applied Computing Conference), Imperial College Press.
- (33) J. Monnot and S. Toulouse, *Complexity of P_k packing problems in bipartite graphs*, Proc. ALIO/EURO. 05, 2005.
- (34) J.Monnot, *On complexity and approximability of the Labeled maximum/perfect matching problems*, Proc ISAAC. 05, LNCS 3827, 934-943, 2005.
- (35) B. Escoffier, J. Monnot, and V. Th. Paschos, *Weighted coloring : further complexity and approximability results*, Proc. ICTCS. 05, LNCS 3701, 205-214, 2005.
- (36) E. Angel, E. Bampis, L. Gourvès and J. Monnot, *(Non)-Approximability for the multi-criteria TSP(1,2)*, Proc. FCT 05, LNCS 3623, 318-329, 2005.
- (37) J. Monnot and S. Toulouse, *Approximation results for the weighted P_4 partition problems*, Proc. FCT 05, LNCS 3623, 377-385, 2005.
- (38) C. Bazgan, J. Monnot, V. Th. Paschos, and F. Serrière, *Greedy differential approximations for min set cover* Proc. SOFSEM. 05, LNCS 3381, 62-71, 2005.

- (39) L. Alfandari, M. Demange, and J. Monnot *Integral Inverse Optimization Problems* EURO XX conference on Operational Research, 2004.
- (40) D. de Werra, M. Demange, B. Escoffier, J. Monnot, and V. Th. Paschos, *Weighted coloring on planar, bipartite and split graphs : complexity and improved approximation*, Proc. ISAAC. 04, LNCS 3341, 896-907, 2004.
- (41) D. de Werra, M. Demange, J. Monnot, and V. Th. Paschos, *The Hypocoloring problem : complexity and approximability when the chromatic number is small*, Proc. WG. 04, LNCS 3353, 377-388, 2004.
- (42) C. Bazgan, R. Hassin, and J. Monnot, *Differential approximation for some routing problems*, Proc. CIAC 03, LNCS 2653, 277-288, 2003.
- (43) J. Monnot, V. Th. Paschos, and S. Toulouse, *Differential approximation of the traveling salesman problem*, Proc. Balkan conference on Operational Research, 2002.
- (44) D. de Werra, M. Demange, J. Monnot, and V. Th. Paschos, *Weighted node coloring : when stable sets are expensive*, Proc. WG. 02, LNCS 2573, 114-125, 2002.
- (45) J. Monnot, V. Th. Paschos, and S. Toulouse, *Differential approximation results for traveling salesman problem with distance 1 and 2*, Proc. FCT 01, LNCS 2138, 275-286, 2001.

National conference (with proceeding) :

- (1) C. Bazgan, B. Escoffier, L. Gourvès, J. Monnot, and F. Pascual, *Solutions équitables approchées pour divers problèmes d'optimisation combinatoire*, Proc 13 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2012.
- (2) L. Gourvès, J. Monnot, S. Moretti and N. K. Thang, *Jeux de congestion avec ressources à capacité limitée*, Proc 13 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2012.
- (3) L. Gourvès, J. Monnot, and L. Tlilane, *Approximation polynomiale pour des problèmes de matroïdes bi-objectifs*, Proc 13 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2012.
- (4) Y. Chevaleyre, J. Lang, N. Maudet, J. Monnot, and L. Xia *Vote et préférences incomplètes : gagnants possibles et nécessaires pour l'ajout de candidats*, Proc 12 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2011.
- (5) L. Gourvès and J. Monnot, *Equilibres forts et jeu de la coupe maximum*, Proc 11 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2010.
- (6) L. Gourvès and J. Monnot, *Trois jeux d'arbre couvrant pour agents individualistes*, Proc 10 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2009.
- (7) L. Gourvès, J. Monnot and F. Pascual, *Problème d'affectation entre plusieurs organisations*, Proc 10 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2009.
- (8) L. Gourvès, J. Monnot and O. A. Telelis, *Problèmes labellisés de voyageur de commerce*, Proc 9 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2008.

- (9) B. Escoffier and J. Monnot, *Complexité du problème de coloration pondérée dans des classes de graphes triangulés*, Proc 6 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2005.
- (10) E. Angel, E. Bampis, L. Gourvès, and J. Monnot, *Approximation pour le problème du voyageur de commerce multi-critère*, Proc 6 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2005.
- (11) J. Monnot and O. Spanjaard, *Plus court chemin Bottleneck sur une échelle partiellement ordonnée*, Proc 4 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2002.
- (12) J. Monnot, *Differential approximation of NP-hard problems with constant size feasible solutions*, Proc 4 journées nationales de la Société française de recherche opérationnelle et d'aide a la décision (ROADEF), 2002.

International journal :

- (1) Y. Chevaleyre, J. Lang, N. Maudet, J. Monnot, and L. Xia *New candidates welcome! Possible winners with respect to the addition of new candidates*, Mathematical Social Sciences (accepted), 2011.
- (2) B. Escoffier, L. Gourvès, and J. Monnot, *Fair solutions for some multiagent optimization problems*, Autonomous Agents and Multi-Agent Systems, (accepted) 2011.
- (3) L. Alfandari, and J. Monnot, *A note on the Clustered Set Covering Problem*, Discrete Applied Mathematics, (accepted) 2011.
- (4) E. Fritzilas, M. Milanič, J. Monnot, and Y. A. Rios-Solis, *Resilience and optimization of identifiable bipartite graphs*, Discrete Applied Mathematics, (accepted) 2011.
- (5) R. Hassin J. Monnot, and D. Segev, *The Complexity of bottleneck Labeled graph problems*, Algorithmica, 58(2), 245-262, 2010.
- (6) B. Escoffier, L. Gourvès, J. Monnot, and O. Spanjaard, *The two-stage stochastic matching and spanning tree problems : polynomial instances and approximation algorithms*, European Journal of Operational Research, 205(1), 19-30, 2010.
- (7) B. Couetoux, L. Gourvès, J. Monnot, and O. Telelis, *On Labeled Traveling Salesman Problems*, Discrete Optimization, 7(2), 74-85, 2010.
- (8) L. Gourvès, A. Lyra, C. Martinhon, and J. Monnot, *The minimum reload s-t path/trail/walk problems*, Discrete Applied Mathematics, 158(13), 1404-1417, 2010.
- (9) B. Escoffier, L. Gourvès, and J. Monnot, *Complexity and approximation for the connected vertex cover problem in graphs and hypergraphs*, J of Discrete Algorithms, 8(1), 36-49, 2010.
- (10) G. Ausiello, B. Escoffier, J. Monnot, and V. Th. Paschos, *Reoptimization of minimum and maximum traveling salesman's tours*, J of Discrete Algorithms, 7(4), 453-463, 2009.
- (11) D. de Werra, M. Demange, B. Escoffier, J. Monnot, and V. Th. Paschos, *Weighted coloring on planar, bipartite and split graphs : complexity and improved approximation*, Discrete Applied Mathematics, 157(4), 819-832, 2009.
- (12) B. Escoffier, J. Monnot, and O. Spanjaard, *Some tractable instances of interval data minmax regret problems*, Operations Research Letters, 36, 424-429, 2008.

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- (16) J. Monnot and S. Toulouse, *The path partition problem and related problems in bipartite graphs*, Operations Research Letters, 35, 677-684, 2007.
- (17) D. de Werra, M. Demange, J. Monnot, and V. Th. Paschos, *Time slot scheduling of compatible jobs*, J. of Scheduling 10(2), 111-127, 2007.
- (18) J. Monnot, *A note on the NP-completeness of the precoloring extension coloring problem in triangle free planar graphs*, Foundations of Computing and Decision Sciences, 31, 169-173, 2006.
- (19) B. Escoffier, J. Monnot, and V. Th. Paschos, *Weighted coloring : further complexity and approximability results*, Information Processing Letters 97, 98-103, 2006.
- (20) J. Monnot, *A simple approximation algorithm for WIS based on the approximability in k -partite graphs*, European Journal of Operational Research, 171, 346-348, 2006.
- (21) J. Monnot, *The Labeled perfect matching in bipartite graphs*, Information Processing Letters 96, 81-88, 2005.
- (22) C. Bazgan, J. Monnot, V. Th. Paschos, and F. Serrière, *Differential approximations for min set cover*, Theoretical Computer Science 332, 497-513, 2005.
- (23) R. Hassin, and J. Monnot, *The maximum saving partition problem*, Operations Research Letters 33, 242-248, 2005.
- (24) C. Bazgan, R. Hassin, and J. Monnot, *Approximation algorithms for some routing problems*, Discrete Applied Mathematics 146,3-26, 2005.
- (25) D. de Werra, M. Demange, J. Monnot, and V. Th. Paschos, *A Hypocoloring model for batch scheduling*, Discrete Applied Mathematics 146, 27-42, 2005.
- (26) J. Monnot, *Approximation algorithms for the maximum Hamiltonian path problem with specified endpoint(s)*, European Journal of Operational Research 161, 721-735, 2005.
- (27) J. Monnot, V. Th. Paschos, and S. Toulouse, *Local approximation for maximum H_0 -partial subgraph problem*, Operations Research Letters 32(3), 217-224, 2004.
- (28) T. Bruggemann, J Monnot, and G. J. Woeginger, *Local search for the minimum label spanning tree problem with bounded color classes*, Operations Research Letters 31(3), 195-201, 2003.
- (29) J. Monnot, and O. Spanjaard, *Bottleneck Shortest path on a partially ordered scale*, 4OR 1(3), 225-241, 2003.
- (30) M. Demange, J. Monnot and V. Th. Paschos, *Differential approximation results for the Steiner tree problems*, Applied Mathematics Letters 16, 733-739, 2003.
- (31) J. Monnot, V. Th. Paschos and S. Toulouse, *Differential approximation results for traveling salesman problem with distance 1 and 2*, European Journal of Operational Research 145(3), 537-548, 2003.

- (32) J. Monnot, *Differential approximation results for the Traveling Salesman and related Problems*, Information Processing Letters 82 (5), 229-235, 2002.
- (33) J. Monnot, *Approximation results toward Nearest Neighbor heuristic*, Yugoslav Journal of Operations Research 12 (1), 11-16, 2002.
- (34) J. Monnot, V. Th. Paschos and S. Toulouse, *Approximation Algorithms for the traveling salesman problem*, Mathematical Models of Operations Research 56, 387-405, 2002.
- (35) J. Monnot, *The maximum f -depth Spanning tree problem*, Information Processing Letters 80 (4), 179-187, 2001.
- (36) M. Demange, J. Monnot and V. Th. Paschos, *Maximizing the number of unused bins*, Foundations of Computing and Decision Sciences 26 (2), 169-186, 2001.
- (37) M. Demange, J. Monnot and V. Th. Paschos, *Bridging gap between standard and differential polynomial approximation : the case of bin-packing*, Applied Mathematics Letters 12, 127-133, 1999.

National journal :

- (1) J. Monnot, *A note on the hardness results for the labeled perfect matching problems in bipartite graphs*, RAIRO-Operations Research 42(3), 315-324, 2008.
- (2) J. Monnot, V. Th. Paschos, and S. Toulouse, *Optima locaux garantis pour l'approximation différentielle*, Technique et Science Informatiques 22(3), 257-288, 2003.
- (3) J. Monnot, *Differential approximation of NP-hard problems with constant size feasible solutions*, RAIRO/operations research 36(4), 279-297, 2002.

Supervisor of Master thesis

- (1) Master thesis of Hanane Allaoua, *Aspect stratégique d'un problème d'ordonnancement* (in french), (Supervisors B. Escoffier, L. Gourvès and J Monnot), Université Paris IX Dauphine, 2011.
- (2) Master thesis of Itamar Elem, *The minimum G_c cut problem*, (Supervisors R. Hassin and J Monnot), Tel-Aviv University, 2011.
- (3) Master thesis of Lydia Tlilane, *Problème de l'arbre colorié bicritère* (in french), (Supervisors L. Gourvès and J Monnot), Université Paris IX Dauphine, 2011.
- (4) Master thesis of Axel Thirion, *Local Effect games* (mémoire mineur), (Supervisors L. Gourvès and J Monnot), Université Paris IX Dauphine, 2011.
- (5) Master thesis of Lyes Belhou, *Couplage de poids maximum avec contrainte de budget* (in french, mémoire mineur), (Supervisors C. Bazgan, L. Gourvès and J Monnot), Université Paris IX Dauphine, 2010.
- (6) Master thesis of Igor Kupczynski, *Bicriteria scheduling on Single-Machine with Inventory Operations* (mémoire mineur), (Supervisors C. Bazgan, L. Gourvès and J Monnot), Université Paris IX Dauphine, 2010.
- (7) Master thesis of Hatem Chatti, *Tournée de véhicules labellisée* (in french), (Supervisors L. Gourvès and J Monnot), Université Paris IX Dauphine, 2009.
- (8) Master thesis of Dalal Madakat, *Problème d'arbre couvrant : application de la théorie des jeux dans l'étude du problème des réseaux à plusieurs utilisateurs* (in french, mémoire mineur), (Supervisors L. Gourvès and J Monnot), Université Paris IX Dauphine, 2009.
- (9) Master thesis of Jean-Christophe Alais, *Théorie des jeux et coloration de graphes* (in french, mémoire mineur), (Supervisors L. Gourvès and J Monnot), Université Paris IX Dauphine, 2009.
- (10) Master thesis of Djamel Mohia, *Paths and trails in edge-colored graphs* (in french, mémoire mineur), (Supervisors L. Gourvès and J Monnot), Université Paris IX Dauphine, 2008.
- (11) Master thesis of Alexandre Shulman, *Ré-optimisation des problèmes de la chaîne Hamiltonienne* (in french), (Supervisors L. Gourvès and J Monnot), Université Paris IX Dauphine, 2007.

Supervisor of Phd thesis

- (1) Phd thesis of Lydia Tlilane, *Approximation polynomiale de problèmes multicritères* (in french), (Supervisors L. Gourvès and J Monnot), Université Paris IX Dauphine, (2011-2014).
- (2) Phd thesis of Sophie Toulouse, *Approximation polynomiale : optima locaux et rapport différentiel* (in french), (Supervisors J Monnot and V. Paschos), Université Paris IX Dauphine, (1998-2001).