

PUBLICATIONS

1 Articles acceptés ou parus dans des revues avec comité d'arbitrage

1. A. Kamgaing Kuiteing, P. Marcotte and G. Savard
“Pricing and revenue maximization over a multicommodity transportation network: the nonlinear demand case”
forthcoming in *Computational Optimization and Applications*
2. T. Dan and P. Marcotte
“Competitive facility location with selfish users and queues”
forthcoming in *Operations Research*
3. M. Carvalho, A. Lodi and P. Marcotte
“A polynomial algorithm for a continuous bilevel knapsack problem”
Operations Research Letters **46** (2018) 185–188
4. M. Hosseinalifam, P. Marcotte and G. Savard
“A new bid price approach to dynamic resource allocation in network revenue management”
European Journal of Operations Research **255** (2016) 142–150
5. A. Kamgaing Kuiteing, P. Marcotte and G. Savard
“Network pricing of congestion-free networks: the elastic and linear demand case”
Transportation Science **51** (2016) 791–806
6. S. Afsar, L. Brotcorne, P. Marcotte and G. Savard
“Achieving an optimal trade-off between revenue and energy peak within a smart grid environment”
Renewable Energy **91** (2016) 293–301
7. M. Hosseinalifam, G. Savard and P. Marcotte
“Computing booking limits under a non-parametric demand model: A mathematical programming approach”
Journal of Revenue and Pricing Management **15** (2016) 170–184
8. F. Gilbert, M. Anjos, P. Marcotte and G. Savard
“Optimal design of bilateral contracts for energy procurement”
European Journal of Operational Research **246** (2015) 641–650
9. M. Hosseinalifam, P. Marcotte and G. Savard
“Network capacity control under a nonparametric demand choice model”
Operations Research Letters **43** (2015) 461–466
10. M. Nasri, F. Bastin and P. Marcotte
“Quantifying the social welfare loss in moral hazard models”
European Journal of Operational Research **245** (2015) 226–235
11. S. Sharif Azadeh, P. Marcotte and G. Savard
“A Non-Parametric Approach to Demand Forecasting in Revenue Management”
Computers and Operations Research **63** (2015) 23–31
12. F. Gilbert, P. Marcotte and G. Savard
“A numerical study of the logit network pricing problem”
Transportation Science **43** (2015) 706–719

13. S. Sharif Azadeh, P. Marcotte and G. Savard
 “A taxonomy of demand uncensoring methods in revenue management”
Journal of Revenue and Pricing Management **13** (2014) 440–456
14. J. Guérin, P. Marcotte and G. Savard
 “ L^p Approximation of Univariate Concave Functions”
JOTA **161** (2014) 490–505
15. F. Gilbert, P. Marcotte and G. Savard
 “Logit network pricing”
Computers and Operations Research **41** (2014) 291–298
16. F. Gilbert, P. Marcotte and G. Savard
 “Mixed-logit network pricing”
Computational Optimization and Applications **57** (2014) 105–127
17. S. Mirza Alizadeh, P. Marcotte and G. Savard
 “Two-stage stochastic bilevel programming over a transportation network”
Transportation Research B **58** (2013) 92–105
18. P. Marcotte, G. Savard and A. Schoeb
 “A hybrid approach to the solution of a pricing model with continuous demand segmentation”
EURO Journal on Computational Optimization **1** (2013) 117–142
19. C.O. Pieume, P. Marcotte, L.P. Fotso and P. Siarry
 “Generating Efficient Solutions in Bilevel Multi-Objective Programming Problems”
American Journal of Operations Research **3** (2013) 289–298
20. L. Brotcorne, F. Cirinei, P. Marcotte and G. Savard
 “A Tabu search algorithm for the network pricing problem”
Computers and Operations Research **39** (2012) 2603–2611
21. L. Brotcorne, F. Cirinei, P. Marcotte and G. Savard
 “An Exact Algorithm for the Network Pricing Problem”
Discrete Optimization **8** (2011) 246–258
22. C.O. Pieume, P. Marcotte, L. P. Fotso and P. Siarry
 “Solving Bilevel Linear Multiobjective Programming Problems”
American Journal of Operations Research **1** (2011) 214–219
23. G. Heilporn, M. Labbé, P. Marcotte et G. Savard, “Valid inequalities and Branch-and-Cut for the Clique Pricing Problem”
Discrete Optimization **8** (2011) 246–258.
24. G. Heilporn, M. Labbé, P. Marcotte and G. Savard
 “A Polyhedral Study of the Network Pricing Problem with Connected Toll Arcs”
Networks **55** (2010) 234–246
25. Y. Zhang, O. Berman, P. Marcotte and V. Verter
 “A Bilevel Model for Preventive Healthcare Facility Network Design with Congestion”
IIE Transactions **42** (2010) 865–880
26. G. Heilporn, P. Marcotte and G. Savard
 “A Parallel Between Two Classes of Pricing Problems in Transportation and Economics”
Journal of Revenue and Pricing Management **9** (2010) 110–125

27. P. Marcotte, A. Mercier, G. Savard and V. Verter
 “Toll Policies for Mitigating Hazardous Materials Transport Risk”
Transportation Science **43** (2009) 228–243
28. P. Marcotte and D.L. Zhu
 “Existence and computation of optimal tolls in multiclass network equilibrium problems”
Operations Research Letters **37** (2009) 211–214
29. P. Marcotte, G. Savard and D.L. Zhu
 “Mathematical structure of a bilevel strategic pricing model”
European Journal of Operational Research **193** (2009) 552–566
30. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard
 “Joint Design and Pricing on a Network”
Operations Research **56** (2008) 1104–1115
31. L. Brotcorne, G. Savard and P. Marcotte
 “Bilevel Programming: The Montreal School”
INFOR **46** (2008) 231–246
32. S. Dewez, M. Labbé, P. Marcotte and G. Savard
 “New formulations and valid inequalities for a bilevel pricing problem”
Operations Research Letters **36** (2008) 141–149
33. B. Colson, P. Marcotte and G. Savard
 “An overview of bilevel optimization”
Annals of Operations Research **153** (2007) 235–256
34. P. Marcotte and G. Savard
 “A Bilevel Approach to Optimal Pricing”
Zurich Intelligencer (2007) 36–37
35. J. Guérin, P. Marcotte and G. Savard
 “An optimal adaptive algorithm for the approximation of concave functions”
Mathematical Programming A **107** (2006) 357–366
36. J.-P. Dussault, P. Marcotte, S. Roch and G. Savard
 “A smoothing heuristic for a class of bilinear bilevel programs”
European Journal of Operational Research **174** (2006) 1396–1413.
37. S. Roch, G. Savard and P. Marcotte
 “An approximation algorithm for Stackelberg network pricing”
Networks 46 **46** (2005) 57–67
38. B. Colson, P. Marcotte and G. Savard
 “A trust-region method for nonlinear bilevel programming: algorithm and computational experience”
Computational Optimization and Applications **30** (2005) 211–227
39. B. Colson, P. Marcotte and G. Savard
 “Bilevel programming: A survey”
4OR **3** (2005) 87–107
40. P. Marcotte, S. Nguyen and A. Schoeb
 “A strategic model of traffic assignment in static capacitated networks”
Operations Research **52** (2004) 191–212

41. P. Marcotte and L. Wynter
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Transportation Science **8** (2004) 282–292
42. P. Marcotte, G. Savard and F. Semet
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43. Y. Hamdouch, P. Marcotte and S. Nguyen
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44. Y. Hamdouch, P. Marcotte and S. Nguyen
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45. J.-P. Côté, P. Marcotte and G. Savard
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46. P. Marcotte and D. Zhu
 “A cutting plane for quasimonotone variational inequalities”
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47. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard
 “A bilevel model and algorithm for a freight tariff setting problem”
Transportation Science **35** (2001) 1–14
48. P. Marcotte, G. Savard and D. L. Zhu
 “A trust region algorithm for nonlinear bilevel programming”
Operations Research Letters **29** (2001) 171–179
49. S. Dubuc, I. Kagabo and P. Marcotte
 “Trivial cases for the Kantorovitch problem”
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50. P. Marcotte and D. L. Zhu
 “On the existence of solutions to the dynamic user equilibrium problem”
Transportation Science **34** (2000) 402–414
51. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard
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Transportation Science **34** (2000) 289–302
52. J.-P. Crouzeix, P. Marcotte and Daoli Zhu
 “Conditions ensuring the applicability of cutting-plane methods for solving monotone variational inequalities”
Mathematical Programming A **88** (2000) 521–539
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54. S. Dubuc, I. Kagabo and P. Marcotte
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INFOR **37** (1999) 141–148

55. P. Marcotte and D. L. Zhu
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56. S.Q. Wu, Y. Chen and P. Marcotte
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58. M. Labbé, P. Marcotte and G. Savard
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59. J.-L. Goffin, P. Marcotte and D. L. Zhu
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60. R. Séguin, J.-Y. Potvin, M. Gendreau, T. G. Crainic, and P. Marcotte
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61. P. Marcotte and S.Q. Wu
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67. P. Marcotte and G. Savard
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69. P. Marcotte and J. H. Wu
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70. D. L. Zhu and P. Marcotte
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71. J. H. Wu, M. Florian and P. Marcotte
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72. D. L. Zhu and P. Marcotte
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Mathematical Programming A **61** (1993) 281–300
76. P. Marcotte and G. Marquis
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77. P. Marcotte, L. Zubieta and G. Marquis
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78. E. Fernández and P. Marcotte
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79. P. Marcotte and Gilles Savard
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81. P. Marcotte and G. Savard
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92. A. Haurie and P. Marcotte
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93. P. Marcotte
 “Network design problem with congestion effects: A case of bilevel programming”
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94. J. Guélat and P. Marcotte
 “Some comments on Wolfe’s “Away Step””
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2 Actes de conférences avec comité d’arbitrage

1. Y. Bengio, N. Le Roux, P. Vincent, O. Delalleau and P. Marcotte
 “Convex Neural Networks”
 Advances in Neural Information Processing Systems (NIPS 2005), December 5–8 2005, Vancouver, British Columbia, Canada
2. M. Fortin, P. Marcotte and G. Savard
 “Pricing a segmented market subject to congestion”
 Proceedings of TRISTAN V (Triennial Symposium on Transportation Analysis) Le Gosier, Guadeloupe, July 13–18 2004
3. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard
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4. P. Marcotte, S. Nguyen and K. Tanguay
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5. P. Marcotte and D. L. Zhu
 “An efficient algorithm for a bicriterion traffic assignment problem”
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3 Chapitres de livre

1. P. Marcotte, A. Mercier., G. Savard et V. Verter
 “Gestion du risque lié au transport des matières dangereuses : une approche basé sur la tarification”
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2. P. Marcotte and M. Patriksson
 “Traffic Equilibrium”
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3. M. Didi-Biha, P. Marcotte and G. Savard
 “Path-based Formulations of a Bilevel Toll Setting Problem”
 Optimization with Multivalued Mappings Theory: Theory, Applications and Algorithms, S. Dempe and V. Kalashnikov eds., Springer (2006) 29–50

4. P. Marcotte and G. Savard
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5. P. Marcotte and G. Savard
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6. P. Marcotte and G. Savard
 “Bilevel Programming: Formulation”, “Bilevel Programming: Applications” and “Bilevel Programming: Algorithms”
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7. M. Labbé, P. Marcotte and G. Savard
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8. P. Marcotte
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9. P. Marcotte and S. Nguyen
 “Hyperpath formulations of traffic assignment problems”
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10. P. Marcotte and D. L. Zhu
 “Equilibria with infinitely many differentiated classes of customers”
 Complementarity and variational problems. State of the art, J-S Pang and M. Ferris eds., SIAM (1997) 234–258
11. P. Marcotte
 “Advantages and drawbacks of variational inequality formulations”
 Variational Inequalities and Network Equilibrium Problems, F. Giannessi and A. Maugeri eds., Plenum Press (1995) 179–194
12. P. Marcotte and M. Blain
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4 Livres

1. M. Gendreau and P. Marcotte, eds.
 Transportation and Network Analysis: Current Trends. Miscellanea in honor of Michael Florian
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2. P. Marcotte and S. Nguyen, eds.
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5 Autres

1. P. Marcotte et F. Soumis
Tous les chemins mènent aux maths
Québec Science (2000)
2. P. Marcotte
Design optimal d'un rseau de transport en prsence d'effets de congestion
Thse de doctorat (Ph.D.), Universit de Montral (1981)
3. P. Marcotte
Application de la transforme de Laplace l'interpolation par des sommes d'exponentielles
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