

# PUBLICATIONS

## 1 Articles à paraître

1. M. Hosseinalifam, P. Marcotte and G. Savard  
“A new bid price approach to dynamic resource allocation in network revenue management”  
à paraître dans *European Journal of Operations Research*
2. A. Kamgaing Kuiteing, P. Marcotte and G. Savard  
“Network pricing of congestion-free networks: the elastic and linear demand case”  
à paraître dans *Transportation Science*

## 2 Articles parus dans des revues avec comité d’arbitrage

1. 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
2. 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
3. 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
4. M. Hosseinalifam, P. Marcotte and G. Savard  
“Network capacity control under a nonparametric demand choice model”  
*Operations Research Letters* **43** (2015) 461–466
5. 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
6. 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
7. F. Gilbert, P. Marcotte and G. Savard  
“A numerical study of the logit network pricing problem”  
*Transportation Science* **43** (2015) 706–719
8. 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
9. J. Guérin, P. Marcotte and G. Savard  
“ $L^p$  Approximation of Univariate Concave Functions”  
*JOTA* **161** (2014) 490–505
10. F. Gilbert, P. Marcotte and G. Savard  
“Logit network pricing”  
*Computers and Operations Research* **41** (2014) 291–298

11. F. Gilbert, P. Marcotte and G. Savard  
 “Mixed-logit network pricing”  
*Computational Optimization and Applications* **57** (2014) 105–127
12. S. Mirza Alizadeh, P. Marcotte and G. Savard  
 “Two-stage stochastic bilevel programming over a transportation network”  
*Transportation Research B* **58** (2013) 92–105
13. 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
14. 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
15. 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
16. L. Brotcorne, F. Cirinei, P. Marcotte and G. Savard  
 “An Exact Algorithm for the Network Pricing Problem”  
*Discrete Optimization* **8** (2011) 246–258
17. 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
18. 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.
19. G. Heilporn, M. Labbé, P. Marcotte and G. Savard  
 “A Polyhedral Study of the Network Pricing Problem with Connected Toll Arcs”  
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20. 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
21. 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
22. P. Marcotte, A. Mercier, G. Savard and V. Verter  
 “Toll Policies for Mitigating Hazardous Materials Transport Risk”  
*Transportation Science* **43** (2009) 228–243
23. P. Marcotte and D.L. Zhu  
 “Existence and computation of optimal tolls in multiclass network equilibrium problems”  
*Operations Research Letters* **37** (2009) 211–214
24. 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

25. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard  
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*Operations Research* **56** (2008) 1104–1115
26. L. Brotcorne, G. Savard and P. Marcotte  
 “Bilevel Programming: The Montreal School”  
*INFOR* **46** (2008) 231–246
27. S. Dewez, M. Labbé, P. Marcotte and G. Savard  
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*Operations Research Letters* **36** (2008) 141–149
28. B. Colson, P. Marcotte and G. Savard  
 “An overview of bilevel optimization”  
*Annals of Operations Research* **153** (2007) 235–256
29. P. Marcotte and G. Savard  
 “A Bilevel Approach to Optimal Pricing”  
*Zurich Intelligencer* (2007) 36–37
30. J. Guérin, P. Marcotte and G. Savard  
 “An optimal adaptive algorithm for the approximation of concave functions”  
*Mathematical Programming A* **107** (2006) 357–366
31. J.-P. Dussault, P. Marcotte, S. Roch and G. Savard  
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*European Journal of Operational Research* **174** (2006) 1396–1413.
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*Networks 46* **46** (2005) 57–67
33. 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
34. B. Colson, P. Marcotte and G. Savard  
 “Bilevel programming: A survey”  
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35. P. Marcotte, S. Nguyen and A. Schoeb  
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36. P. Marcotte and L. Wynter  
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37. P. Marcotte, G. Savard and F. Semet  
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38. Y. Hamdouch, P. Marcotte and S. Nguyen  
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39. Y. Hamdouch, P. Marcotte and S. Nguyen  
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40. J.-P. Côté, P. Marcotte and G. Savard  
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*Journal of Revenue and Pricing Management* **2** (2003) 23–36
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42. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard  
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43. P. Marcotte, G. Savard and D. L. Zhu  
 “A trust region algorithm for nonlinear bilevel programming”  
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45. P. Marcotte and D. L. Zhu  
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46. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard  
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*Transportation Science* **33** (1999) 341–353
49. S. Dubuc, I. Kagabo and P. Marcotte  
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*Computational Optimization and Applications* **10** (1998) 36–49

53. M. Labbé, P. Marcotte and G. Savard  
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*Management Science* **44** (1998) 1608–1622
54. J.-L. Goffin, P. Marcotte and D. L. Zhu  
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90. P. Marcotte  
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91. A. Haurie and P. Marcotte  
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### 3 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”  
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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”  
Proceedings of TRISTAN II (Triennial Symposium on Transportation Analysis) Capri, June 23–28 1994, 891–897

### 4 Chapitres de livre

1. P. Marcotte, A. Mercier., G. Savard et V. Verter  
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2. P. Marcotte and M. Patriksson  
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3. M. Didi-Biha, P. Marcotte and G. Savard  
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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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10. P. Marcotte and D. L. Zhu  
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12. P. Marcotte and M. Blain  
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## 5 Livres

1. M. Gendreau and P. Marcotte, eds.  
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## 6 Autres

1. P. Marcotte et F. Soumis  
 Tous les chemins mènent aux maths  
 Québec Science (2000)
2. P. Marcotte  
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 Thse de doctorat (Ph.D.), Universit de Montral (1981)

3. P. Marcotte

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