

PUBLICATIONS

1 Articles à paraître

1. L. Brotcorne, F. Cirinei, P. Marcotte and G. Savard
“A Tabu search algorithm for the network pricing problem”
à paraître dans *Computers and Operations Research*
2. L. Brotcorne, F. Cirinei, P. Marcotte and G. Savard
“An Exact Algorithm for the Network Pricing Problem”
à paraître dans *Discrete Optimization*
3. J. Guérin, P. Marcotte et G. Savard
“ L^p Approximation of Univariate Concave Functions”
à paraître dans *JOTA*

2 Articles parus dans des revues avec comité d’arbitrage

1. 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
2. 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
3. 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
4. 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
5. P. Marcotte, A. Mercier, G. Savard and V. Verter
“Toll Policies for Mitigating Hazardous Materials Transport Risk”
Transportation Science **43** (2009) 228–243
6. P. Marcotte and D.L. Zhu
“Existence and computation of optimal tolls in multiclass network equilibrium problems”
Operations Research Letters **37** (2009) 211–214
7. P. Marcotte, G. Savard and D.L. Zhu
“Mathematical structure of a bilevel strategic pricing model”
EJOR **193** (2009) 552–566
8. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard
“Joint Design and Pricing on a Network”
Operations Research **56** (2008) 1104–1115
9. L. Brotcorne, G. Savard and P. Marcotte
“Bilevel Programming: The Montreal School”
INFOR **46** (2008) 231–246

10. 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
11. B. Colson, P. Marcotte and G. Savard
 “An overview of bilevel optimization”
Annals of Operations Research **153** (2007) 235–256
12. P. Marcotte and G. Savard
 “A Bilevel Approach to Optimal Pricing”
Zurich Intelligencer (2007) 36–37
13. J. Guérin, P. Marcotte and G. Savard
 “An optimal adaptive algorithm for the approximation of concave functions”
Mathematical Programming A **107** (2006) 357–366
14. J.-P. Dussault, P. Marcotte, S. Roch and G. Savard
 “A smoothing heuristic for a class of bilinear bilevel programs”
European Journal of Operations Research **174** (2006) 1396–1413.
15. S. Roch, G. Savard and P. Marcotte
 “An approximation algorithm for Stackelberg network pricing”
Networks **46** (2005) 57–67
16. 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
17. B. Colson, P. Marcotte and G. Savard
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4OR **3** (2005) 87–107
18. P. Marcotte, S. Nguyen and A. Schoeb
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19. P. Marcotte and L. Wynter
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Transportation Science **8** (2004) 282–292
20. P. Marcotte, G. Savard and F. Semet
 “A bilevel programming approach to the travelling salesman problem”
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21. Y. Hamdouch, P. Marcotte and S. Nguyen
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22. Y. Hamdouch, P. Marcotte and S. Nguyen
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23. J.-P. Côté, P. Marcotte and G. Savard
 “A bilevel modeling approach to pricing and fare optimization in the airline industry”
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24. P. Marcotte and D. Zhu
 “A cutting plane for quasimonotone variational inequalities”
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25. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard
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26. P. Marcotte, G. Savard and D. L. Zhu
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27. S. Dubuc, I. Kagabo and P. Marcotte
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28. P. Marcotte and D. L. Zhu
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29. L. Brotcorne, M. Labbé, P. Marcotte and G. Savard
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30. J.-P. Crouzeix, P. Marcotte and Daoli Zhu
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31. Y.W. Xu, J.H. Wu, M. Florian and P. Marcotte
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32. S. Dubuc, I. Kagabo and P. Marcotte
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33. P. Marcotte and D. L. Zhu
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34. S.Q. Wu, Y. Chen and P. Marcotte
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35. P. Marcotte and D. L. Zhu
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Computational Optimization and Applications **10** (1998) 36–49
36. M. Labbé, P. Marcotte and G. Savard
 “A bilevel model of taxation and its application to optimal highway pricing”
Management Science **44** (1998) 1595–1607
37. J.-L. Goffin, P. Marcotte and D. L. Zhu
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47. P. Marcotte and J. H. Wu
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48. D. L. Zhu and P. Marcotte
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49. J. H. Wu, M. Florian and P. Marcotte
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73. P. Marcotte
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 “On the relationship between Nash-Cournot and Wardrop equilibria”
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75. P. Marcotte
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76. 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”
 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
 “A bilevel model for a network design and tariff setting problem”
 Proceedings of TRISTAN V (Triennial Symposium on Transportation Analysis) Le Gosier, Guadeloupe, July 13–18 2004
4. P. Marcotte, S. Nguyen and K. Tanguay
 “Implementation of an efficient algorithm for the multiclass traffic assignment problem”
 Proceedings of the 13th International Symposium on Transportation and Traffic Theory, Lyon, July 24–26 1996, Jean-Baptiste Lesort ed., Pergamon (1996) 217–226
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 and M. Patriksson
 “Traffic Equilibrium”
 Transportation. Handbooks in Operations Research and Management Science, C. Barnhardt and G. Laporte eds., North-Holland (2007) 623–714
2. 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
3. P. Marcotte and G. Savard
 “Bilevel Programming: A combinatorial perspective”
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4. P. Marcotte and G. Savard
 “A bilevel programming approach to Price Setting”
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5. P. Marcotte and G. Savard
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6. M. Labbé, P. Marcotte and G. Savard
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7. P. Marcotte
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8. P. Marcotte and S. Nguyen
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2. P. Marcotte and S. Nguyen, eds.
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6 Autres

1. P. Marcotte et F. Soumis
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2. P. Marcotte
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