

Publication list of Laurent Gourvès

Journals

1. Gourvès, L., Harutyunyan, A., Lampis, M., Melissinos, N. : Filling crosswords is very hard. *Theoretical Computer Science*, **982** : 114275, 2024.
2. Bilò, V., Gourvès, L., Monnot, J. : Project Games. *Theoretical Computer Science*, **940(Part)** : 97–111, 2023.
3. Fotakis D., Gourvès L. : On the Distortion of Single Winner Elections with Aligned Candidates. *Autonomous Agents and Multi-Agent Systems*. **36(2)** : 37, 2022.
4. Beynier A., Chevaleyre Y., Gourvès L., Harutyunyan A., Lesca J., Maudet N., Wilczynski A. : Local Envy-Freeness in House Allocation Problems. *Autonomous Agents and Multi-Agent Systems*, **33(5)** : 591–627, 2019.
5. Gourvès, L. : Agreeable Sets with Matroidal Constraints. *Journal of Combinatorial Optimization*, **37(3)** : 866–888, April 2019.
6. Gourvès, L., Monnot, J. : On Maximin Share Allocations in Matroids. *Theoretical Computer Science* **754** : 50-64 (2019)
7. Gourvès, L., Monnot, J., Tlilane, L. : Subset Sum Problems With Digraph Constraints, *Journal of Combinatorial Optimization*, **36(3)** (2018), 937–964.
8. Gourvès L. , Monnot J., Pascual F., Vanderpooten D., Bi-objective matchings with the triangle inequality, *Theoretical Computer Science*, **670** (2017), 1–10.
9. Escoffier, B., Gourvès, L., Monnot J. : The price of optimum : complexity and approximation for a matching game. *Algorithmica*, **77(3)** (2017), 836–866
10. Gourvès, L. : Approximating the optimal sequence of acquisitions and sales with a capped budget. *Information Processing Letters* **115** (2015), 760–764
11. Faria, L., Gourvès, L., Martinhon, C.A.J., Monnot, J. : The edge-recoloring cost of monochromatic and properly edge-colored paths and cycles. *Theoretical Computer Science* **602** (2015), 89–102
12. Gourvès, L., Monnot, J., Moretti, S., Thang, N. : Congestion games with capacitated resources. *Theory of Computing Systems* **57(3)** (2015), 598–616
13. Gourvès, L., Monnot, J., Tlilane, L. : Worst case compromises in matroids with applications to the allocation of indivisible goods. *Theoretical Computer Science* **589** (2015), 121–140
14. Gourvès, L., Monnot, J., Tlilane, L. : Approximate tradeoffs on weighted labeled matroids. *Discrete Applied Mathematics* **184** (2015), 154–166
15. Escoffier, B., Gourvès, L., Monnot, J. : Fair solutions for some multiagent optimization problems. *Autonomous Agents and Multi-Agent Systems* **26** (2013), 184–201
16. Gourvès, L., Lyra, A., Martinhon, C.A.J., Monnot, J. : Complexity of trails, paths and circuits in arc-colored digraphs. *Discrete Applied Mathematics* **161** (2013), 819–828
17. Bazgan, C., Gourvès, L., Monnot, J. : Approximation with a fixed number of solutions of some multiobjective maximization problems. *Journal of Discrete Algorithms* **22** (2013), 19–29

18. Bazgan, C., Gourvès, L., Monnot, J., Pascual, F. : Single approximation for the biobjective max TSP. *Theoretical Computer Science* **478** (2013) 41–50
19. Gourvès, L., Monnot, J., Pascual, F. : Cooperation in multiorganization matching. *Algorithmic Operations Research* **7** (2012), 111–124
20. Gourvès, L., de Lyra, A.R., Martinhon, C.A.J., Monnot, J. : On paths, trails and closed trails in edge-colored graphs. *Discrete Mathematics & Theoretical Computer Science* **14** (2012), 57–74
21. Escoffier, B., Gourvès, L., Monnot, J. : Strategic coloring of a graph. *Internet Mathematics* **8** (2012), 424–455
22. Couëtoux, B., Gourvès, L., Monnot, J., Telelis, O. : Labeled traveling salesman problems : Complexity and approximation. *Discrete Optimization* **7** (2010), 74–85
23. Escoffier, B., Gourvès, L., Monnot, J., Spanjaard, O. : Two-stage stochastic matching and spanning tree problems : Polynomial instances and approximation. *European Journal of Operational Research* **205** (2010), 19–30
24. Escoffier, B., Gourvès, L., Monnot, J. : Complexity and approximation results for the connected vertex cover problem in graphs and hypergraphs. *Journal of Discrete Algorithms* **8** (2010), 36–49
25. Gourvès, L., Lyra, A., Martinhon, C.A.J., Monnot, J. : The minimum reload s-t path, trail and walk problems. *Discrete Applied Mathematics* **158** (2010), 1404–1417
26. Angel, E., Bampis, E., Gourvès, L. : On the minimum hitting set of bundles problem. *Theoretical Computer Science* **410** (2009), 4534–4542
27. Angel, E., Bampis, E., Blin, L., Gourvès, L. : Fair cost-sharing methods for the minimum spanning tree game. *Information Processing Letters* **100** (2006), 29–35
28. Angel, E., Bampis, E., Gourvès, L. : Approximation algorithms for the bi-criteria weighted max-cut problem. *Discrete Applied Mathematics* **154** (2006), 1685–1692
29. Angel, E., Bampis, E., Gourvès, L. : Approximation results for a bicriteria job scheduling problem on a single machine without preemption. *Information Processing Letters* **94** (2005), 19–27
30. Angel, E., Bampis, E., Gourvès, L. : Approximating the Pareto curve with local search for the bicriteria TSP(1, 2) problem. *Theoretical Computer Science* **310** (2004), 135–146

Editorial and Tribute

1. Escoffier, B., Gourvès, L., Paschos, V. Th. : In memory of Jérôme Monnot. *Theoretical Computer Science* **921** (2022), 1–3.
2. Gourvès, L. : Hommage à Jérôme Monnot. *1024* **19**, (April 2022) 51–53.

International conferences

1. Gourvès, L., Monaco, G. : Nash Stability in Hedonic Skill Games. Proceedings of AAMAS 2024.
2. Tamby, S., Gourvès, L., Moretti, S. : Greedy heuristic guided by lexicographic excellence. Proceedings of EvoCOP 2024, Springer.

3. Gourvès, L., Pagourtzis, A. : Removable Online Knapsack with Bounded Size Items. Proceedings of SOFSEM 2024, Springer.
4. Fotakis, D., Gourvès, L. : On the Distortion of Single Winner Elections with Aligned Candidates. 22nd International Conference on Autonomous Agents and Multiagent Systems AAMAS-23, London, United Kingdom, May 29-June 2, 2023. Pages 1409–1411. JAAMAS Track.
5. Cardi, P., Gourvès, L., Lesca, J. : On Fair and Efficient Solutions for Budget Apportionment. 21st International Conference on Autonomous Agents and Multiagent Systems AAMAS-22, Auckland, New Zealand, May 9-13, 2022. Pages 1560–1562.
6. Gourvès, L., Harutyunyan, A., Lampis, M., Melissinos, N. : Filling Crosswords is Very Hard. 32nd International Symposium on Algorithms and Computation (ISAAC 2021), December 6-8, 2021, Fukuoka, Japan. Pages 36 :1–36 :16.
7. Gourvès, L., Lesca, J., Wilczynski, A. : On Fairness via Picking Sequences in Allocation of Indivisible Goods. 7th International Conference on Algorithmic Decision Theory ADT-21, Toulouse, France, November 3-5, 2021. Pages 258–272.
8. Boria, N., Gourvès, L., Paschos, V., Monnot, J. : The Maximum Duo-Preservation String Mapping Problem with Bounded Alphabet. 21st International Workshop on Algorithms in Bioinformatics, WABI 2021, August 2-4, 2021, Virtual Conference, pages 5 :1–5 :12.
9. Cardi, P., Gourvès, L., Lesca, J. : Worst-case Bounds for Spending a Common Budget. AAMAS '21 : 20th International Conference on Autonomous Agents and Multiagent Systems, Virtual Event, United Kingdom, May 3-7, 2021, pages 288–296.
10. Fotakis, D., Gourvès, L., Kasouridis, S., Pagourtzis, A. : Object Allocation and Positive Graph Externalities. 24th European Conference on Artificial Intelligence ECAI 2020, Santiago de Compostela, Spain, June 10-12, 2020.
11. Cechlárová, K., Gourvès, L., Lesca, J. : On the Problem of Assigning PhD Grants. 28th International Joint Conference on Artificial Intelligence IJCAI-19, Macao, China, August 10-16, 2019. 130–136.
12. Bilò, V., Gourvès, L., Monnot, J. : Project Games. 11th International Conference on Algorithms and Complexity CIAC 2019, Rome, Italy, May, 2019, Proceedings, volume 11485 of Lecture Notes in Computer Science, pages 75–86. Springer, 2019.
13. Bilò, V., Gourvès, L., Monnot, J. : On a Simple Hedonic Game with Graph-Restricted Communications. 12th International Symposium on Algorithmic Game Theory SAGT 2019, Athens, Greece, September-October, 2019, Lecture Notes in Computer Science, pages 252–265. Springer, 2019.
14. Fotakis, D., Gourvès, L., Mathieu, C., Srivastav, A. : Covering Clients with Types and Budgets. 29th International Symposium on Algorithms and Computation, ISAAC 2018, December 16-19, 2018, Jiaoxi, Yilan, Taiwan. 73 :1-73 :12
15. Beynier A., Chevalyere Y., Gourvès L., Lesca J., Maudet N., Wilczynski A. : Local Envy-Freeness in House Allocation Problems. 17th International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2018, Stockholm, Sweden, July 10-15, 2018. 292–300
16. Gourvès, L., Lesca, J., Wilczynski, A. : Object Allocation via Swaps along a Social Network. 26th International Joint Conference on Artificial Intelligence IJCAI-17, Melbourne, Australia, August, 2017. 213–219
17. Gourvès, L., Monnot, J. : Approximate Maximin Share Allocations in Matroids. 10th International Conference on Algorithms and Complexity CIAC 2017, Athens, Greece,

- May, 2017, Proceedings, volume 10236 of Lecture Notes in Computer Science, pages 310–321. Springer, 2017.
18. Fotakis, D., Gourvès, L., Monnot, J. : Selfish Transportation Games. 43rd International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2017, Limerick, Ireland, January, 2017, Proceedings, volume 10139 of Lecture Notes in Computer Science, pages 176–187. Springer, 2017.
 19. Fotakis, D., Gourvès, L., Monnot, J. : Conference Program Design with Single-Peaked and Single-Crossing Preferences. The 12th Conference on Web and Internet Economics WINE 2016, Montreal, Canada, December, 2016.
 20. Gourvès, L., Lesca, J., Wilczynski, A. : Strategic Voting in a Social Context : Considerate Equilibria. The 22nd European Conference on Artificial Intelligence, ECAI 2016, The Hague, The Netherlands - August/September, 2016.
 21. Cargiannis, I., Gourvès, L., Monnot, J. : Achieving proportional representation in conference programs. 25th International Joint Conference on Artificial Intelligence IJCAI-16, New-York, NY, USA, July, 2016.
 22. Faliszewski P., Lang, J., Lesca, J., Gourvès, L., Monnot, J. : How Hard Is It for a Party to Nominate an Election Winner?. 25th International Joint Conference on Artificial Intelligence IJCAI-16, New-York, NY, USA, July, 2016.
 23. Gourvès, L. : Profitable deviation strong equilibria. In Toby Walsh, editor, Algorithmic Decision Theory - 4th International Conference, ADT 2015, Lexington, KY, USA, September 27-30, 2015, Proceedings, volume 9346 of Lecture Notes in Computer Science, pages 236–252. Springer, 2015.
 24. Gourvès, L., Monnot, J., Pagourtzis, A. : The lazy matroid problem. In Josep Diaz, Ivan Lanese, and Davide Sangiorgi, editors, Theoretical Computer Science - 8th IFIP TC 1/WG 2.2 International Conference, TCS 2014, Rome, Italy, September 1-3, 2014. Proceedings, volume 8705 of Lecture Notes in Computer Science, pages 66-77. Springer, 2014.
 25. Ferraioli, D., Gourvès, L., Monnot, J. : On regular and approximately fair allocations of indivisible goods. In : Ana L. C. Bazzan, Michael N. Huhns, Alessio Lomuscio, and Paul Scerri, editors, International conference on Autonomous Agents and Multi-Agent Systems, AAMAS'14, Paris, France, May 5-9, 2014, pages 997–1004. IFAAMAS/ACM, 2014.
 26. Gourvès, L., Monnot, J., Tlilane, L. : Near fairness in matroids. In Torsten Schaub, Gerhard Friedrich, and Barry O’Sullivan, editors, ECAI 2014 - 21st European Conference on Artificial Intelligence, 18-22 August 2014, Prague, Czech Republic - Including Prestigious Applications of Intelligent Systems (PAIS 2014), volume 263 of Frontiers in Artificial Intelligence and Applications, pages 393–398. IOS Press, 2014.
 27. Barrot, N., Gourvès, L., Lang, J., Monnot, J., Ries, B. : Possible winners in approval voting. In Patrice Perny, Marc Pirlot, and Alexis Tsoukiàs, editors, Algorithmic Decision Theory - 3rd International Conference, ADT 2013, volume 8176 of Lecture Notes in Computer Science, pages 57–70. Springer, 2013.
 28. Gourvès, L., Monnot, J., Pagourtzis, A. : The lazy bureaucrat problem with common arrivals and deadlines : Approximation and mechanism design. In Leszek Gasieniec and Frank Wolter, editors, Fundamentals of Computation Theory (FCT), volume 8070 of Lecture Notes in Computer Science, pages 171–182. Springer, 2013.
 29. Gourvès, L., Monnot, J., Tlilane, L. : A matroid approach to the worst case allocation of indivisible goods. In Francesca Rossi, editor, IJCAI 2013, Proceedings of the 23rd

- International Joint Conference on Artificial Intelligence, Beijing, China, August 3-9, 2013. IJCAI/AAAI, 2013.
30. Escoffier, B., Ferraioli, D., Gourvès, L., Moretti, S. : Designing budget-balanced best-response mechanisms for network coordination games. In Berthold Vöcking, editor, Symposium on Algorithmic Game Theory SAGT 2013, volume 8146 of Lecture Notes in Computer Science, pages 207–218. Springer, 2013.
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 32. Gourvès, L., Monnot, J., Tlilane, L. : Approximate tradeoffs on matroids. In Luc De Raedt, Christian Bessière, Didier Dubois, Patrick Doherty, Paolo Frasconi, Fredrik Heintz, and Peter J. F. Lucas, editors, 20th European Conference on Artificial Intelligence (ECAI), volume 242 of Frontiers in Artificial Intelligence and Applications, pages 360–365. IOS Press, 2012.
 33. Gourvès, L., Monnot, J., Moretti, S., Thang, N.K. : Congestion games with capacitated resources. In Maria J. Serna, editor, Algorithmic Game Theory - 5th International Symposium (SAGT), volume 7615 of Lecture Notes in Computer Science, pages 204–215. Springer, 2012.
 34. Escoffier, B., Gourvès, L., Monnot, J., Moretti, S. : Cost allocation protocols for network formation on connection situations. In Bruno Gaujal, Alain Jean-Marie, Eduard A. Jorswieck, and Alexandre Seuret, editors, 6th International ICST Conference on Performance Evaluation Methodologies and Tools, Cargese, Corsica, France, October 9-12, 2012, pages 228-234. ICST/IEEE, 2012.
 35. Escoffier, B., Gourvès, L., Thang, N.K., Pascual, F., Spanjaard, O. : Strategy-proof mechanisms for facility location games with many facilities. In Ronen I. Brafman, Fred S. Roberts, and Alexis Tsoukiàs, editors, Algorithmic Decision Theory - 2nd International Conference ADT 2011, volume 6992 of Lecture Notes in Computer Science, pages 67–81. Springer, 2011.
 36. Escoffier, B., Gourvès, L., Monnot, J. : The price of optimum in a matching game. In Giuseppe Persiano, editor, Symposium on Algorithmic Game Theory SAGT, volume 6982 of Lecture Notes in Computer Science, pages 81–92. Springer, 2011.
 37. Bazgan, C., Gourvès, L., Monnot, J., Pascual, F. : Single approximation for biobjective max TSP. In : In Solis-Oba and Persiano, editors, Approximation and Online Algorithms - 9th International Workshop, WAOA 2011, Saarbrücken, Germany, September 8-9, 2011, volume 7164 of Lecture Notes in Computer Science. Springer, 2012, pages 49–62.
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42. Chatti, H., Gourvès, L., Monnot, J. : On a labeled vehicle routing problem. In van Leeuwen, J., Muscholl, A., Peleg, D., Pokorný, J., Rumpe, B., eds. : Conference on Current Trends in Theory and Practice of Computer Science SOFSEM. Volume 5901 of Lecture Notes in Computer Science., Springer (2010), pages 271–282.
43. Gourvès, L., Monnot, J. : The max k -cut game and its strong equilibria. In : Jan Kratochvíl, Angsheng Li, Jirí Fiala, and Petr Kolman, editors, Theory and Applications of Models of Computation, 7th Annual Conference, TAMC 2010, Prague, Czech Republic, June 7-11, 2010. Proceedings, volume 6108 of Lecture Notes in Computer Science. Springer, 2010, pages 234–246.
44. Gourvès, L., Monnot, J. : On strong equilibria in the max cut game. In : Stefano Leonardi, editor. Internet and Network Economics, 5th International Workshop, WINE 2009, Rome, Italy, December 14-18, 2009. Proceedings, volume 5929 of Lecture Notes in Computer Science. Springer, 2009, pages 608–615
45. Gourvès, L., Monnot, J., Telelis, O. : Selfish scheduling with setup times. In : Stefano Leonardi, editor. Internet and Network Economics, 5th International Workshop, WINE 2009, Rome, Italy, December 14-18, 2009. Proceedings, volume 5929 of Lecture Notes in Computer Science. Springer, 2009, pages 292–303.
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47. Gourvès, L., Lyra, A., Martinhon, C.A.J., Monnot, J., Protti, F. : On s-t paths and trails in edge-colored graphs. *Electronic Notes in Discrete Mathematics* **35** (2009), pages 221–226. Proceedings of the 5th Latin American Algorithms, Graphs and Optimization Symposium (LAGOS 2009).
48. Angel, E., Bampis, E., Gourvès, L. : On the minimum hitting set of bundles problem. In Fleischer, R., Xu, J., eds. : The Sixth International Conference on Algorithmic Aspects in Information and Management AAIM 2010. Volume 5034 of Lecture Notes in Computer Science., Springer (2008), pages 3–14.
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50. Gourvès, L., Monnot, J., Pascual, F. : Cooperation in multiorganization matching. In Bampis, E., Skutella, M., eds. : Workshop on Online and Approximation Algorithms WAOA. Volume 5426 of Lecture Notes in Computer Science., Springer (2008), pages 78–91.

51. Gourvès, L., Monnot, J. : Three selfish spanning tree games. In Papadimitriou, C.H., Zhang, S., eds. : Web and Internet Economics WINE. Volume 5385 of Lecture Notes in Computer Science., Springer (2008), pages 465–476.
52. Giannakos, A., Gourvès, L., Monnot, J., Paschos, V.T. : On the performance of congestion games for optimum satisfiability problems. In Deng, X., Graham, F.C., eds. : Web and Internet Economics WINE. Volume 4858 of Lecture Notes in Computer Science., Springer (2007), pages 220–231.
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54. Escoffier, B., Gourvès, L., Monnot, J. : Complexity and approximation results for the connected vertex cover problem. In Brandstädt, A., Kratsch, D., Müller, H., eds. : International Workshop on Graph-Theoretic Concepts in Computer Science WG. Volume 4769 of Lecture Notes in Computer Science., Springer (2007), pages 202–213.
55. Angel, E., Bampis, E., Gourvès, L., Monnot, J. : (non)-approximability for the multi-criteria $TSP(1, 2)$. In Liskiewicz, M., Reischuk, R., editors, Fundamentals of Computation Theory (FCT). Volume 3623 of Lecture Notes in Computer Science., Springer (2005), pages 329–340.
56. Angel, E., Bampis, E., Gourvès, L. : Approximation algorithms for the bi-criteria weighted max-cut problem. In Kratsch, D., ed. : International Workshop on Graph-Theoretic Concepts in Computer Science WG. Volume 3787 of Lecture Notes in Computer Science., Springer (2005), pages 331–340.
57. Angel, E., Bampis, E., Gourvès, L. : Approximating the Pareto curve with local search for the bicriteria TSP (1, 2) problem. In Lingas, A., Nilsson, B.J., editors, Fundamentals of Computation Theory (FCT). Volume 2751 of Lecture Notes in Computer Science, pages 39–48, Springer, 2003.

National conferences

1. Gourvès, L., Lesca, J., Wilczynski, A. : Sur l'Équité via la Sélection en Séquence pour l'Allocation de Biens Indivisibles. 16èmes Journées d'Intelligence Artificielle Fondamentale, JIAF 2022, Saint-Étienne, France, June 30 - July 1, 2022.

Book chapters

1. Ferraioli, D., Gourvès, L., Moretti, S., Pascual, F., Spanjaard, O. : Combinatorial optimization with competing agents. In Paschos, V.T., ed. : Paradigms of Combinatorial Optimization - Vol 2. ISTE (2014)
2. Gourvès, L., Moretti, S. : Combinatorial optimization problems arising from interactive congestion situations. In Mahjoub, A.R., ed. : Progress in Combinatorial Optimization. ISTE Ltd and John Wiley & Sons Inc (2011)
3. Gourvès, L., Monnot, J., Telelis, O.A. : Strategic scheduling games : Equilibria and efficiency. In Rios-Mercado, R.Z., Rios-Solis, Y.A., eds. : Just-in-Time Systems. Springer (2012)

4. Angel, E., Bampis, E., Gourvès, L. : Polynomial approximation of multicriteria combinatorial optimization problems. In Paschos, V.T., ed. : Paradigms of Combinatorial Optimization. Wiley (2010)
5. Angel, E., Bampis, E., Gourvès, L., Monnot, J. : Approximation of multicriteria min and max TSP(1,2). In Paschos, V.T., ed. : Combinatorial Optimization and Computer Science : Interfaces and Perspectives. Wiley (2008)
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8. Angel, E., Bampis, E., Gourvès, L. : A dynasearch neighborhood for the traveling salesman problem. In Gandibleux, X., Sevaux, M., Sörensen, K., T'kindt, V., eds. : Metaheuristics for Multiobjective Optimisation. Springer LNEMS 535 (2004)