

Publication list of Laurent Gourvès

Journals

1. Cardi, P., Gourvès, L., Lesca, J. : On fair and efficient solutions for budget apportionment. *Autonomous Agents and Multi-Agent Systems*, **39** : 1, 21, 2025.
<https://hal.science/hal-05047352v1/document>
2. Gourvès, L., Monaco, G. : Existence, Computation and Efficiency of Nash Stable Outcomes in Hedonic Skill Games. *Journal of Artificial Intelligence Research*, **82**, 1711–1742, 2025.
<https://www.jair.org/index.php/jair/article/view/17157/27157>
3. Gourvès, L., Harutyunyan, A., Lampis, M., Melissinos, N. : Filling crosswords is very hard. *Theoretical Computer Science*, **982** : 114275, 2024.
<https://hal.science/hal-04487531v1/document>
4. Bilò, V., Gourvès, L., Monnot, J. : Project Games. *Theoretical Computer Science*, **940(Part)** : 97–111, 2023.
<https://hal.science/hal-03964451v1/document>
5. Fotakis D., Gourvès L. : On the Distortion of Single Winner Elections with Aligned Candidates. *Autonomous Agents and Multi-Agent Systems*. **36(2)** : 37, 2022.
<https://hal.science/hal-04305280v1/document>
6. Beynier A., Chevalere 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.
<https://hal.science/hal-02156844v1/document>
7. Gourvès, L. : Agreeable Sets with Matroidal Constraints. *Journal of Combinatorial Optimization*, **37(3)** : 866–888, April 2019.
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8. Gourvès, L., Monnot, J. : On Maximin Share Allocations in Matroids. *Theoretical Computer Science* **754** : 50–64 (2019)
9. Gourvès, L., Monnot, J., Tlilane, L. : Subset Sum Problems With Digraph Constraints, *Journal of Combinatorial Optimization*, **36(3)** (2018), 937–964.
10. Gourvès L. , Monnot J., Pascual F., Vanderpooten D., Bi-objective matchings with the triangle inequality, *Theoretical Computer Science*, **670** (2017), 1–10.
11. Escoffier, B., Gourvès, L., Monnot J. : The price of optimum : complexity and approximation for a matching game. *Algorithmica*, **77(3)** (2017), 836–866
12. Gourvès, L. : Approximating the optimal sequence of acquisitions and sales with a capped budget. *Information Processing Letters* **115** (2015), 760–764
13. 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
14. Gourvès, L., Monnot, J., Moretti, S., Thang, N. : Congestion games with capacitated resources. *Theory of Computing Systems* **57(3)** (2015), 598–616

15. 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
16. Gourvès, L., Monnot, J., Tlilane, L. : Approximate tradeoffs on weighted labeled matroids. *Discrete Applied Mathematics* **184** (2015), 154–166
17. Escoffier, B., Gourvès, L., Monnot, J. : Fair solutions for some multiagent optimization problems. *Autonomous Agents and Multi-Agent Systems* **26** (2013), 184–201
18. 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
19. 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
20. Bazgan, C., Gourvès, L., Monnot, J., Pascual, F. : Single approximation for the biobjective max TSP. *Theoretical Computer Science* **478** (2013) 41–50
21. Gourvès, L., Monnot, J., Pascual, F. : Cooperation in multiorganization matching. *Algorithmic Operations Research* **7** (2012), 111–124
22. 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
23. Escoffier, B., Gourvès, L., Monnot, J. : Strategic coloring of a graph. *Internet Mathematics* **8** (2012), 424–455
24. Couëtoux, B., Gourvès, L., Monnot, J., Telelis, O. : Labeled traveling salesman problems : Complexity and approximation. *Discrete Optimization* **7** (2010), 74–85
25. 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
26. 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
27. 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
28. Angel, E., Bampis, E., Gourvès, L. : On the minimum hitting set of bundles problem. *Theoretical Computer Science* **410** (2009), 4534–4542
29. 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
30. Angel, E., Bampis, E., Gourvès, L. : Approximation algorithms for the bi-criteria weighted max-cut problem. *Discrete Applied Mathematics* **154** (2006), 1685–1692
31. 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
32. 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.
<https://hal.science/hal-03839709v1/document>
2. Gourvès, L. : Hommage à Jérôme Monnot. *1024* **19**, (April 2022) 51–53.

International conferences

1. Fanelli, A., Gourvès, L., Igarashi, A., Moscardelli, L. : Individually Stable Dynamics in Coalition Formation over Graphs Proceedings of AAAI-25, Philadelphia, PA, USA, February 25 - March 4, 2025, 2025, pp 13831–13838.
<https://hal.science/hal-04672297v1/document>
2. Fotakis, D., Gourvès, L., Patsilinos, P. : On the Distortion of Committee Election with 1-Euclidean Preferences and Few Distance Queries Proceedings of AAAI-25, Philadelphia, PA, USA, February 25 - March 4, 2025, 2025, pp 13864–13872.
<https://hal.science/hal-05047284v1/document>
3. Gourvès, L., Monaco, G. : Nash Stability in Hedonic Skill Games. Proceedings of the 23rd International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2024, Auckland, New Zealand, May 6-10, 2024, pp 706–714.
<https://hal.science/hal-04626037v1/document>
4. Tamby, S., Gourvès, L., Moretti, S. : Greedy heuristic guided by lexicographic excellence. Proceedings of EvoCOP 2024, Springer LNCS 14632, pp 97–112.
<https://hal.science/hal-04585261v1/document>
5. Gourvès, L., Pagourtzis, A. : Removable Online Knapsack with Bounded Size Items. Proceedings of SOFSEM 2024, Springer LNCS 14519, pp. 283–296
<https://hal.science/hal-04485407v1/document>
6. 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.
<https://hal.science/hal-04305280v1/document>
7. 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.
<https://hal.science/hal-03690260v1/document>
8. 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.
<https://hal.science/hal-03839913v1/document>
9. 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.
<https://hal.science/hal-03406848v1/document>

10. 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.
<https://hal.science/hal-03435225v1/document>
11. 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.
<https://hal.science/hal-03435248v1/document>
12. 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.
<https://hal.science/hal-03037335v1/document>
13. 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.
14. 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.
15. Bilò, V., Gourvès, L., Monnot, J. : On a Simple Hedonic Game with Graph-Restricted Communication. 12th International Symposium on Algorithmic Game Theory SAGT 2019, Athens, Greece, September-October, 2019, Lecture Notes in Computer Science, pages 252–265. Springer, 2019.
16. 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
17. Beynier A., Chevalere 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
18. 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
19. 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.
20. 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.
21. 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.
22. 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.

23. 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.
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27. 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.
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29. 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.
30. 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.
31. 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.
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33. Gourvès, L., Monnot, J., Tlilane, L. : A protocol for cutting matroids like cakes. A protocol for cutting matroids like cakes. In Yiling Chen and Nicole Immorlica, editors, Web and Internet Economics - 9th International Conference, Web and Internet Economics WINE 2013, volume 8289 of Lecture Notes in Computer Science, pages 216–229. Springer, 2013.

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37. 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.
38. 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.
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44. 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.

45. Gourvès, L., Monnot, J. : The max k -cut game and its strong equilibria. In : Jan Kratochvíl, Angsheng Li, Jiri 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.
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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)
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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)
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