REFERENCES

- Atila Abdulkadiroğlu and Tayfun Sönmez. 1998. Random Serial Dictatorship and the Core from Random Endowments in House Allocation Problems. *Econometrica* 66, 3 (1998), 689–701.
- [2] Rediet Abebe, Jon Kleinberg, and David C. Parkes. 2017. Fair Division via Social Comparison. In Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-17). ACM, São Paulo, Brazil, 281–289.
- [3] Bengt Aspvall, Michael F. Plass, and Robert Endre Tarjan. 1979. A Linear-Time Algorithm for Testing the Truth of Certain Quantified Boolean Formulas. *Inform. Process. Lett.* 8, 3 (1979), 121–123.
- [4] Haris Aziz, Sylvain Bouveret, Ioannis Caragiannis, Ira Giagkousi, and Jérôme Lang. 2018. Knowledge, Fairness, and Social Constraints. In Proceedings of the 32nd AAAI conference on Artificial Intelligence (AAAI'18). AAAI Press, New Orleans, Louisiana, USA, -.
- [5] Haris Aziz, Jens L. Hougaard, Juan D. Moreno-Ternero, and Lars P. Østerdal. 2017. Computational Aspects of Assigning Agents to a Line. *Mathematical Social Sciences* 90 (2017), 93–99.
- [6] Haris Aziz, Ildikó Schlotter, and Toby Walsh. 2016. Control of Fair Division. In Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence, IJCAI 2016, New York, NY, USA, 9-15 July 2016. IJCAI/AAAI Press, 67-73.
- [7] Sophie Bade. 2017. Matching with Single-Peaked Preferences. Technical report. (2017).
- [8] Xiaohui Bei, Youming Qiao, and Shengyu Zhang. 2017. Networked Fairness in Cake Cutting. In Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI-17). ijcai.org, Melbourne, Australia, 3632–3638. https://doi.org/10.24963/ijcai.2017/508
- [9] Sylvain Bouveret, Katarína Cechlárová, Edith Elkind, Ayumi Igarashi, and Dominik Peters. 2017. Fair Division of a Graph. In Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI-17). ijcai.org, Melbourne, Australia, 135–141. https://doi.org/10.24963/ijcai.2017/20
- [10] Sylvain Bouveret, Yann Chevaleyre, and Nicolas Maudet. 2016. Fair Allocation of Indivisible Goods. In Handbook of Computational Social Choice, Felix Brandt, Vincent Conitzer, Ulle Endriss, Jérôme Lang, and Ariel D. Procaccia (Eds.). Cambridge University Press, Chapter 12, 284–310. http://recherche.noiraudes.net/en/ handbook.php
- [11] Ioannis Caragiannis, Christos Kaklamanis, Panagiotis Kanellopoulos, and Maria Kyropoulou. 2009. On Low-Envy Truthful Allocations. In Proceedings of the 1st International Conference on Algorithmic Decision Theory (ADT-2009). Springer, Venice, Italy, 111–119.
- [12] Susumu Cato. 2010. Local strict envy-freeness in large economies. Mathematical Social Sciences 59, 3 (2010), 319 – 322. https://doi.org/10.1016/j.mathsocsci.2010. 01.002
- [13] Yann Chevaleyre, Ulle Endriss, and Nicolas Maudet. 2017. Distributed Fair allocation of Indivisible Goods. *Artificial Intelligence* 242 (2017), 1–22.
- [14] Anastasia Damamme, Aurélie Beynier, Yann Chevaleyre, and Nicolas Maudet. 2015. The Power of Swap Deals in Distributed Resource Allocation. In Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems

- (AAMAS-15). ACM, Istanbul, Turkey, 625-633.
- [15] Bart de Keijzer, Sylvain Bouveret, Tomas Klos, and Yingqian Zhang. 2009. On the Complexity of Efficiency and Envy-Freeness in Fair Division of Indivisible Goods with Additive Preferences. In Algorithmic Decision Theory, First International Conference, ADT 2009, Venice, Italy, October 20-23, 2009. Proceedings. Springer, 98-110.
- [16] John P. Dickerson, Jonathan R. Goldman, Jeremy Karp, Ariel D. Procaccia, and Tuomas Sandholm. 2014. The Computational Rise and Fall of Fairness. In Proceedings of the 28th Conference on Artificial Intelligence (AAAI-14). AAAI Press, Québec City, Québec, Canada, 1405–1411.
- [17] M. Feldman, K. Lai, and L. Zhang. 2009. The Proportional-Share Allocation Market for Computational Resources. *IEEE Transactions on Parallel and Distributed Systems* 20, 8 (Aug 2009), 1075–1088. https://doi.org/10.1109/TPDS.2008.168
- [18] Michael R. Fellows, Danny Hermelin, Frances Rosamond, and Stéphane Vialette. 2009. On the Parameterized Complexity of Multiple-Interval Graph Problems. Theoretical Computer Science 410, 1 (2009), 53–61.
- [19] Michele Flammini, Manuel Mauro, and Matteo Tonell. 2018. On Social Envy-Freeness in Multi-Unit Market. In Proceedings of the 32nd AAAI conference on Artificial Intelligence (AAAI'18). AAAI Press, New Orleans, Louisiana, USA, -.
- [20] Duncan K. Foley. 1967. Resource Allocation and the Public Sector. Yale Economic Essays 7, 1 (1967), 45–98.
- [21] Michael R. Garey and David S. Johnson. 1979. Computers and Intractability: A Guide to the Theory of NP-Completeness. W. H. Freeman & Co., New York, NY, USA
- [22] Laurent Gourvès, Julien Lesca, and Anaëlle Wilczynski. 2017. Object Allocation via Swaps along a Social Network. In Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI-17). ijcai.org, Melbourne, Australia, 213–219. https://doi.org/10.24963/ijcai.2017/31
- 213–219. https://doi.org/10.24963/ijcai.2017/31
 [23] Aanund Hylland and Richard Zeckhauser. 1979. The Efficient Allocation of Individuals to Positions. *Journal of Political Economy* 87, 2 (1979), 293–314.
- [24] Jon M. Kleinberg and Éva Tardos. 2006. Algorithm Design. Addison-Wesley.
- [25] Jan Kratochvíl, Petr Savický, and Zsolt Tuza. 1993. One More Occurrence of Variables Makes Satisfiability Jump From Trivial to NP-Complete. SIAM J. Comput. 22 (1993), 203–210.
- [26] Richard J. Lipton, Evangelos Markakis, Elchanan Mossel, and Amin Saberi. 2004. On Approximately Fair Allocations of Indivisible Goods. In Proceedings of the 5th ACM Conference on Electronic Commerce (EC-04). ACM, New York, NY, USA, 125–131.
- [27] Trung Thanh Nguyen and Jörg Rothe. 2014. Minimizing Envy and Maximizing Average Nash Social Welfare in the Allocation of Indivisible Goods. *Discrete Applied Mathematics* 179 (2014), 54–68.
- [28] Vangelis Th. Paschos. 1992. A (Delta/2)-Approximation Algorithm for the Maximum Independent Set Problem. Inform. Process. Lett. 44, 1 (1992), 11–13.
- [29] Lars-Gunnar Svensson. 1999. Strategy-proof allocation of indivisible goods. Social Choice and Welfare 16, 4 (1999), 557–567.
- [30] Vijay V. Vazirani. 2001. Approximation Algorithms. Springer.
- [31] Lin Zhou. 1990. On a Conjecture by Gale about One-Sided Matching Problems. Journal of Economic Theory 52, 1 (1990), 123 – 135.