

REFERENCES

- [1] H. Aziz, F. Brandl, and F. Brandt. 2014. On the Incompatibility of Efficiency and Strategyproofness in Randomized Social Choice. In *Proceedings of the 28th AAAI Conference on Artificial Intelligence (AAAI)*. AAAI Press, 545–551.
- [2] T. Bandyopadhyay. 1983. Manipulation of non-imposed, non-oligarchic, non-binary group decision rules. *Economics Letters* 11, 1–2 (1983), 69–73.
- [3] T. Bandyopadhyay. 1983. Multi-Valued Decision Rules and Coalitional Non-Manipulability. *Economics Letters* 13, 1 (1983), 37–44.
- [4] S. Barberà. 1977. The Manipulation of Social Choice Mechanisms That Do Not Leave “Too Much” to Chance. *Econometrica* 45, 7 (1977), 1573–1588.
- [5] S. Barberà. 1977. Manipulation of Social Decision Functions. *Journal of Economic Theory* 15, 2 (1977), 266–278.
- [6] S. Barberà, B. Dutta, and A. Sen. 2001. Strategy-proof social choice correspondences. *Journal of Economic Theory* 101, 2 (2001), 374–394.
- [7] J.-P. Benoit. 2002. Strategic Manipulation in Voting Games When Lotteries and Ties Are Permitted. *Journal of Economic Theory* 102, 2 (2002), 421–436.
- [8] A. Biere. 2008. PicoSAT Essentials. *Journal on Satisfiability, Boolean Modeling and Computation (JSAT)* 4 (2008), 75–79.
- [9] A. Biere. 2013. Lingeling, Plingeling and Treengeling entering the SAT competition 2013. In *Proceedings of the SAT Competition 2013*. 51–52.
- [10] F. Brandl, F. Brandt, M. Eberl, and C. Geist. 2018. Proving the Incompatibility of Efficiency and Strategyproofness via SMT Solving. *J. ACM* 65, 2 (2018).
- [11] F. Brandl, F. Brandt, C. Geist, and J. Hofbauer. 2015. Strategic Abstention based on Preference Extensions: Positive Results and Computer-Generated Impossibilities. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI)*. AAAI Press, 18–24.
- [12] F. Brandl, F. Brandt, and J. Hofbauer. 2015. Incentives for Participation and Abstention in Probabilistic Social Choice. In *Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*. IFAAMAS, 1411–1419.
- [13] F. Brandt. 2015. Set-Monotonicity Implies Kelly-Strategyproofness. *Social Choice and Welfare* 45, 4 (2015), 793–804.
- [14] F. Brandt and M. Brill. 2011. Necessary and Sufficient Conditions for the Strategyproofness of Irresolute Social Choice Functions. In *Proceedings of the 13th Conference on Theoretical Aspects of Rationality and Knowledge (TARK)*. ACM Press, 136–142.
- [15] F. Brandt, V. Conitzer, U. Endriss, J. Lang, and A. Procaccia (Eds.). 2016. *Handbook of Computational Social Choice*. Cambridge University Press.
- [16] F. Brandt, M. Eberl, C. Saile, and C. Stricker. 2018. The Incompatibility of Fishburn-Strategyproofness and Pareto-Efficiency. *Archive of Formal Proofs* (2018). http://isa-afp.org/entries/Fishburn_Impossibility.html
- [17] F. Brandt and C. Geist. 2016. Finding Strategyproof Social Choice Functions via SAT Solving. *Journal of Artificial Intelligence Research* 55 (2016), 565–602.
- [18] F. Brandt, C. Geist, and D. Peters. 2017. Optimal Bounds for the No-Show Paradox via SAT Solving. *Mathematical Social Sciences* 90 (2017), 18–27. Special Issue in Honor of Hervé Moulin.
- [19] S. Ching and L. Zhou. 2002. Multi-valued strategy-proof social choice rules. *Social Choice and Welfare* 19, 3 (2002), 569–580.
- [20] J. Duggan and T. Schwartz. 2000. Strategic Manipulability without Resoluteness or Shared Beliefs: Gibbard-Satterthwaite Generalized. *Social Choice and Welfare* 17, 1 (2000), 85–93.
- [21] U. Endriss (Ed.). 2017. *Trends in Computational Social Choice*. AI Access.
- [22] B. Erdamar and M. R. Sanver. 2009. Choosers as extension axioms. *Theory and Decision* 67, 4 (2009), 375–384.
- [23] A. Feldman. 1979. Manipulation and the Pareto Rule. *Journal of Economic Theory* 21 (1979), 473–482.
- [24] A. Feldman. 1979. Nonmanipulable multi-valued social choice decision functions. *Public Choice* 34 (1979), 177–188.
- [25] F. Fischer, O. Hudry, and R. Niedermeier. 2016. Weighted Tournament Solutions. In *Handbook of Computational Social Choice*, F. Brandt, V. Conitzer, U. Endriss, J. Lang, and A. D. Procaccia (Eds.). Cambridge University Press, Chapter 4.
- [26] P. C. Fishburn. 1972. Even-chance lotteries in social choice theory. *Theory and Decision* 3, 1 (1972), 18–40.
- [27] P. C. Fishburn. 1977. Condorcet Social Choice Functions. *SIAM J. Appl. Math.* 33, 3 (1977), 469–489.
- [28] P. Gärdenfors. 1976. Manipulation of Social Choice Functions. *Journal of Economic Theory* 13, 2 (1976), 217–228.
- [29] P. Gärdenfors. 1979. On definitions of manipulation of social choice functions. In *Aggregation and Revelation of Preferences*, J. J. Laffont (Ed.). North-Holland.
- [30] C. Geist and U. Endriss. 2011. Automated Search for Impossibility Theorems in Social Choice Theory: Ranking Sets of Objects. *Journal of Artificial Intelligence Research* 40 (2011), 143–174.
- [31] C. Geist and D. Peters. 2017. Computer-aided Methods for Social Choice Theory. In *Trends in Computational Social Choice*, U. Endriss (Ed.). AI Access, Chapter 13, 249–267.
- [32] A. Gibbard. 1973. Manipulation of Voting Schemes: A General Result. *Econometrica* 41, 4 (1973), 587–601.
- [33] A. Hylland. 1980. Strategyproofness of Voting Procedures with Lotteries as Outcomes and Infinite Sets of Strategies. (1980). Mimeo.
- [34] A. Ignatiev, A. Previti, M. Liffiton, and J. Marques-Silva. 2015. Smallest MUS Extraction with Minimal Hitting Set Dualization. In *Proceedings of the 21st International Conference on Principles and Practice of Constraint Programming*, Vol. 9255. Springer-Verlag New York, Inc., New York, NY, USA, 173–182.
- [35] M. Isaksson, G. Kindler, and E. Mossel. 2012. The Geometry of Manipulation: A Quantitative Proof of the Gibbard-Satterthwaite Theorem. *Combinatorica* 32 (2012), 221–250.
- [36] J. S. Kelly. 1977. Strategy-Proofness and Social Choice Functions Without Single-Valuedness. *Econometrica* 45, 2 (1977), 439–446.
- [37] M. H. Liffiton, A. Previti, A. Malik, and J. Marques-Silva. 2016. Fast, flexible MUS enumeration. *Constraints* 21, 2 (2016), 223–250.
- [38] M. H. Liffiton and K. A. Sakallah. 2008. Algorithms for Computing Minimal Unsatisfiable Subsets of Constraints. *Journal of Automated Reasoning* 40, 1 (2008), 1–33.
- [39] I. MacIntyre and P. K. Pattanaik. 1981. Strategic voting under minimally binary group decision functions. *Journal of Economic Theory* 25, 3 (1981), 338–352.
- [40] F. Marić. 2010. Formal verification of a modern SAT solver by shallow embedding into Isabelle/HOL. *Theoretical Computer Science* 411, 50 (2010), 4333–4356.
- [41] A. Mas-Colell and H. Sonnenschein. 1972. General Possibility Theorems for Group Decisions. *Review of Economic Studies* 39, 2 (1972), 185–192.
- [42] E. Mossel and M. Z. Rácz. 2015. A quantitative Gibbard-Satterthwaite theorem without neutrality. *Combinatorica* 35, 3 (2015), 317–387.
- [43] K. Nehring. 2000. Monotonicity implies generalized strategy-proofness for correspondences. *Social Choice and Welfare* 17, 2 (2000), 367–375.
- [44] T. Nipkow, L. C. Paulson, and M. Wenzel. 2002. *Isabelle/HOL – A Proof Assistant for Higher-Order Logic*. Lecture Notes in Computer Science (LNCS), Vol. 2283. Springer-Verlag.
- [45] C. Rodríguez-Álvarez. 2007. On the manipulation of social choice correspondences. *Social Choice and Welfare* 29, 2 (2007), 175–199.
- [46] V. Ryvchin and O. Strichman. 2011. Faster Extraction of High-Level Minimal Unsatisfiable Cores. In *Proceedings of the 14th International Conference on Theory and Applications of Satisfiability Testing – SAT 2011 (Lecture Notes in Computer Science (LNCS))*, Karem A. Sakallah and Laurent Simon (Eds.), Vol. 6695. Springer, 174–187.
- [47] M. R. Sanver and W. S. Zwicker. 2012. Monotonicity properties and their adaption to irresolute social choice rules. *Social Choice and Welfare* 39, 2–3 (2012), 371–398.
- [48] S. Sato. 2008. On strategy-proof social choice correspondences. *Social Choice and Welfare* 31 (2008), 331–343.
- [49] S. Sato. 2014. A fundamental structure of strategy-proof social choice correspondences with restricted preferences over alternatives. *Social Choice and Welfare* 42, 4 (2014), 831–851.
- [50] M. A. Satterthwaite. 1975. Strategy-Proofness and Arrow’s Conditions: Existence and Correspondence Theorems for Voting Procedures and Social Welfare Functions. *Journal of Economic Theory* 10, 2 (1975), 187–217.
- [51] A. K. Sen. 1970. *Collective Choice and Social Welfare*. North-Holland.
- [52] P. Tang and F. Lin. 2009. Computer-aided proofs of Arrow’s and other impossibility theorems. *Artificial Intelligence* 173, 11 (2009), 1041–1053.
- [53] A. D. Taylor. 2005. *Social Choice and the Mathematics of Manipulation*. Cambridge University Press.
- [54] W. S. Zwicker. 2008. Consistency without neutrality in voting rules: When is a vote an average? *Mathematical and Computer Modelling* 48, 9 (2008), 1357–1373.