Trade-off between manipulability and dictatorial power: a proof of the Gibbard-Satterthwaite Theorem

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By endowing the class of tops-only and efficient social choice rules with a dual order structure that exploits the trade-off between different degrees of manipulability and dictatorial power rules allow agents to have, we provide a proof of the Gibbard-Satterthwaite Theorem.

Referencias

[1] ARRIBILLAGA, R. P. AND J. MASSÓ (2016): "Comparing generalized median voter schemes according to their manipulability," Theoretical Economics,11, 547-586.

[2] BARBERÀ, S. (2011): "Strategyproof social choice," Handbook of Social Choice and Welfare, 2, 731-831.

[3] GIBBARD, A. (1973): "Manipulation of voting schemes: a general result," Econometrica, 41, 587-601.

[4] MAUS, S., H.PETERS, AND T.STORCKEN (2007): "Anonymous voting and minimal manipulability," Journal of Economic Theory, 135, 533-544.

[5] NINJBAT, U. (2012): "Another direct proof for the Gibbard–Satterthwaite Theorem," Economics Letters, 116, 418-421.

[6] PATHAK, P. A. AND T. SÖNMEZ (2013): "School admissions reform in Chicago and England: Comparing mechanisms by their vulnerability to manipulation," American Economic Review, 103, 80-106.

[7] SATTERTHWAITE, M. A. (1975): "Strategy-proofness and Arrow's conditions: existence and correspondence theorems for voting procedures and social welfare functions,"Journal of Economic Theory,10,187-217.

[8] SEN, A. (2001): "Another direct proof of the Gibbard–Satterthwaite theorem," Economics Letters, 70, 381-385.