

Social Choice of Ordered Pairs: Generalizations of the Gibbard-Satterthwaite Theorem

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Abstract

We consider the situation where the intent is to select an ordered pair of alternatives based on the agents' preferences over the basic alternatives, for example, the choice of the pair of an Olympic athlete and a reserve athlete, based on the agents' preferences over the basic alternatives (i.e., rankings of the athletes). We investigate the existence of strategy-proof and nondictatorial social choice rules, and give three impossibility theorems.