Obviously Strategy-proof Rules for Object Reallocation

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Abstract

For object reallocation problems, Bade (2019) defines a rule, the "crawler", and shows that on the domain of single-peaked preferences, this rule satisfies efficiency, the endowments lower bounds, and obvious strategy-proofness. Her result raises the question of whether other rules exist that satisfy these properties. We provide a complete answer to this question. Based on the idea underlying the crawler, we obtain a family of rules that we call "crawler-jumper rules". We show that a rule satisfies efficiency, the endowments lower bounds, and obvious strategy-proofness if and only if it is a crawler-jumper rule.

Keywords: object reallocation, single-peaked preferences, obvious strategy-proofness.
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