

# Strategy-proofness and single-dipped preferences

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## Stellingen (Propositions)

behorende bij het proefschrift (to accompany the thesis entitled)

### **“Strategy-proofness and Single-dipped Preferences”**

door Murat Öztürk

1. The desire to have an (Pareto) optimal and strategy-proof way to locate a noxious facility on a nicely shaped area restricts possible locations to the boundary. (Chapter 2)
2. In regions with circular boundaries, dictatorship is the only (Pareto) optimal and strategy-proof social choice rule for locating a public bad. (Chapter 3)
3. When considering single-dipped preference profiles over a tree shaped network, checking validity of pairwise monotonicity of a solution is enough for checking validity of Pareto optimality, strategy-proofness, non-corruptness and anonymity. (Chapter 4)
4. If one of two neighboring countries has a public bad already, this forces the other country to locate theirs inside their territory in some occasions. (Chapter 5)
5. In a world where everyone can vote as they wish, the optimal way to prevent people from lying is not listening to them at all, except to one of them .
6. Deciding how to elect is one of the many ways to manipulate an election.
7. Restricting preferences of people may look unethical at first glance, but it can be logical and understandable to avoid a dictator.
8. The downside of mathematics is that it cannot fully represent the complexity of humanity, but, still, it can build a close enough model.