

# Strategic communication and manipulation

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ACCOMPANYING THE THESIS

## STRATEGIC COMMUNICATION AND MANIPULATION

BY

ADITYA ARADHYE

1. The less informed player (receiver) needs to follow the recommendations of the informed player (sender) even when the informed player is completely selfish. (Chapter 2)
2. Information is power. (Chapter 2)
3. Surprisingly, having additional information for a receiver sometimes results in lower rewards, especially when other players expect them to use that additional information. (Chapter 3)
4. Having more competition (more senders) might be advantageous for the sender. (Chapter 3)
5. In multidimensional binary domains, the objective of each agent is to obtain an outcome (binary vector) which maximizes the number of agreements with their most preferred outcome. An agent might be better off misreporting their true preferences and sacrifice some of the agreements, in order to obtain a better outcome. (Chapter 4)
6. In multidimensional setting, characterization of strategy-proof rules is much more complicated for collective voting rules than the independent voting rules. (Chapter 4)
7. Completely different settings can have surprisingly similar mathematical analysis.
8. Stronger intuition does not mean you are more likely correct.
9. The level of satisfaction of figuring out if a claim is true or not, strictly increases with the amount of time you spend on it.
10. Persistence and patience always help!