

Perfect equilibrium in infinite games

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Propositions

accompanying the doctoral dissertation

Perfect Equilibrium in Infinite Games

by

Elnaz Bajoori

1. Making mistakes is what a human being does, therefore it should be taken into account. (all chapters)
2. Discretization of an infinite game to define trembling hand perfect equilibrium, based on the topological structure of the game, fails to be a good solution. (chapter 2)
3. Behavioral strategies are a natural type of strategies to be used for developing trembling hand perfect equilibrium in Bayesian games with infinite action and type spaces. (chapter 3)
4. We introduce the concept of “distributional perfect equilibrium” in behavioral strategies, using distributional strategies and prove its existence in a large class of Bayesian games. (chapter 4)
5. We apply behavioral and distributional perfect equilibrium to second-price auctions with interdependent values as a selection tool to rule out the less intuitive equilibria. (chapters 3 and 4)
6. Refinement in general is very good, but when it comes to game theory, it is of utter importance.
7. Reality is a construction of games, including the ones we do not know yet.
8. A duty of care increases professionalization.
9. Perfection can only be reached at infinity.