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Subgame perfect nash equilibrium in repeated games

Bayesian-Nash balance; Bayesian Nash Balance) The so-called Bayes Nash balance refers to a series of strategies in which a person in each round chooses a strategy to maximize the payment they want given the probability distribution of their own characteristics and the human characteristics of the other round, i.e. no one is motivated to choose another strategy. Both the Nash Equilibrium and the Perfect Nash Equilibrium sub-game reflect the basic assumption that the structure of the game, the rules of the game, the strategic space of everyone in the game, and the payment function are common knowledge. A game that satisfies such hypotheses is called a complete information game. But in real life these assumptions are often dissatisfied. In non-cooperative game theory, situations where the person in the game does not have an accurate knowledge of the structure of the game and the characteristics of people in other games are called incomplete information games. Before 1967, game theorists were powerless to play incomplete information games. Harsanyi's contribution (1967-1968) solved this problem and filled huge gaps in game theory and even economics, for which he won the Nobel Prize in Economics. John C. Harsanyi introduces people in virtual games, nature. Unlike the average person in the bureau, naturally does not have its own payment and target functions, i.e. all the results are no different for it. Nature first acts to determine the characteristics of the people in the bureau. The selected person knows its original characteristics, while other bureaus do not know the true characteristics of the selected bureau, only the probability distribution of various characteristics is possible. In addition, the selected bureau also knows the distribution function in the mind of other bureaus, namely the distribution function is general knowledge. John C. Harsanyi's work is called the Harsanyi transfer, in which John C. Harsanyi turns an incomplete information game into a complete but incomplete information game. Here complete but imperfect information means that nature makes its choice, but others in the bureau do not know what their specific options are, only the probability distribution of various options. In this way, the game of incomplete information becomes analytical. On this basis, John C. Harsanyi defined the Bayesian-Nash balance. If you believe this entry still needs to be improved and needs to come with new content or be modified with errors, edit the entry. And, Zfj3000, Vulture, Yixi. Open APP In the previous chapter: We see the connection between the game in its normal form and the shape it looks at; We define subgames; We define the refinement of Nash's balance: the perfect balance of subgames. In this chapter we will begin to see instances where the game is repeated. Game In game theory the term repeating game is well defined. Good. of repeated games Recurring games are played over a discrete period of time. Each time period is indexed by $t \in T$ where T is the total number of periods. In each period $t \in T$ players play a static game called a stage game independently and at the same time choose the action. Players make full decisions about the history of the game played so far (i.e. actions selected by each player in each previous time period). The result is defined as the number of utilities in each stage game for each time period. For example let's use the Prisoner dilemma as a play (so we assumed that we had 2 players playing repeatedly): All possible results for the given recurring game $(T = 2)$ are displayed. When we discuss strategies in repeat games we have to be careful. Definition of strategy in repeating games Repetitive game strategy must determine the action of the player in a certain stage game given the entire history of the game over and over again. For example in the following recurring prisoner dilemmas is a valid strategy: Start working together and in each stage match simply repeat the actions used by your opponents in previous stage games. Thus if both players play this strategy the two players will work together as long as it gets (in the case of $(T = 2)$) utility 4. Theorem's sequence of Stage Profiles For each recurring game, Nash's stage profile sequence delivers the result of Nash's perfect balance of subgames. Where in Nash's profile our stage refers to the strategy profile which is Nash's equilibrium in the play. Proof If we consider the strategy given by: The player i must play the strategy $s^i(k)$ regardless of the previous strategy profile game. where $s^i(k)$ is a strategy played by the player i at each stage of Nash's profile. (k) is used to indicate that all players are playing strategies from the same stage of Nash's profile. Using reverse induction we see that this strategy is Nash's balance. Furthermore it is Nash's profile stage so that is Nash's balance for the last stage of the game which is the last subgame. If we consider (in an inductive way) every subsequent subgame that the result holds. Example Consider the following stage game: The plot shows the various possible outcomes of the repeating game for $(T = 2)$. If we consider the two pure equilibriums (r_1, c_3) and $((r_2, c_2))$, we have 4 possible outcomes that correspond to the results of Nash's perfect equilibria subgame: Importantly, not all of Nash's subgame balance results are of the above form. Reputation in the game By definition all subgame ekuiliria Nash must play Nash's profile stage in the final stage game. But can strategies be found that didn't play Nash's profile in previous games? Considering the game above, let's look at this strategy: Play (r_1, c_1) in the first period and then, during play together $((r_1, c_3))$ in the second period. If P2 deviates from (c_1) in the first period then play $((r_2, c_2))$ in the second period. First this strategy gives the vector utility: $((3,7))$. Is this strategy profile Nash's balance (for the whole game)? Does player 1 have an incentive to deviate? No other strategy is played out in any period that will yield lower results. Do 2 players have an incentive to deviate? If player 2 deviates in the first period, he can get 4 in the first period but will get 2 in the second period. Thus the deviation of the first period increased the score by 1 but lowered the score in the second period by 2. Thus player 2 has no incentive to deviate. Finally to check that this is the perfect Nash balance subgame that we need to check that it is the balance for the whole game as well as all subgames. We've checked before that it's a balance for the whole game. It's also a perfect subgame because the profile determines Nash's profile stage in the last stage. Example: Suppose there is an incumbent company, me, and prospective participants, E. Prospective participants first decide whether to enter the market or not observed by the incumbent or not. In the final stages of the game the incumbent decides whether to fight in (e.g. engage in an aggressive pricing strategy) or to accommodate entry. Therefore, each company has two strategies:• E: enter/stay out• I : fight/accommodate if entry occurs The result is as follows:• When E remains out: I= 2, E = 0.• When E comes in and I fight: I = -1 and E = -1.• When E enters and I accommodate: I = 1 and E = 1.Two pairs of strategies are Nash equilibria: {stay out, fight if entry} and {enter, acco. if entry}One of these equilibria, namely {stay out, fight if entry} is a bit strange. This is definitely NE for this game, but it is based on an empty (or not credible) threat: the incumbent will never choose to fight once a potential participant enters the market. Therefore, it is not very likely that prospective participants will remain out of the market. To override balance based on empty threats, we need a stronger concept of balance for sequential games: subgame-perfect balance. In this case, one of Nash's balances is not subgame-perfect balance. Balance.

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