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Game Theory Through Examples

Whenever rational people must make decisions within a framework of strict and known rules, and where each player gets a payoff based

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on the decisions of all the players, we have a game. Examples include auctions, negotiations between countries, and military tactics.

Game Theory Through Examples

Game Theory Through Examples. Book Description: Game Theory Through Examples is a thorough introduction to elementary game theory, covering finite games with complete information. The core philosophy underlying this volume is that abstract concepts are best learned when encountered first (and repeatedly) in concrete settings.

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Book description. Game Theory Through Examples is a thorough introduction to elementary game theory, covering finite games with complete information. The core philosophy underlying this volume is that abstract concepts are best learned when encountered first (and repeatedly) in concrete settings. Thus, the essential ideas of game theory are here presented in the context of actual games, real games much more complex and rich than the typical toy examples.

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agent is planning a party, and is worried about whether it will rain or not.

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Erich Prisner's Game Theory Through Examples is an exemplary contribution to the MAA's series of Classroom Resource Materials. The topics include simultaneous games and sequential games, both zero-sum and non-zero-sum, and with both perfect information and randomness. Mixed strategies for games are discussed relatively late, in chapter 27, but nine example chapters follow, so this topic also is available for exploration.

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Game Theory Through Examples (2/11/04) Games against nature - decision theory for a single agent. Expected utility theory for a single agent is sometimes called the theory of "games against nature". Consider this example. Example 1: Planning a party . Our agent is planning a party, and is worried about whether it will rain or not. ...

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We also assume throughout this Chapter that everybody knows the preferences of everybody. This is called "complete information" in Game Theory. In small groups, like the committee of our example, this may not be unrealistic. Without complete information the

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analysis would become much more complicated.

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Doctor Location Games (2) Restaurant Location Games (2) Election I (2,Excel) Dividing Few Items I (3) Shubik Auction I (3) Sequential Doctor and Restaurant Location Games (3) DMA Soccer I (2,4) Dividing Few Items II (3,4) Sequential Quiz Show I (5) Mini Blackjack and Card Counting I (5) Duel (3,4,5) Shubik Auction II (3,4,5,6) VNM-Poker and Kuhn Poker

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Game Theory has nothing to do with games for entertainment such

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as Cards or video games. In addition, Game Theory goes beyond gambling games or even sports. Game Theory is about "Games of Strategy" in which the strategic interactions of players are being examined in order to decide on the optimal strategy (set of choices) that will lead to the outcome that serves in the best interest of a ...

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Games of perfect information have been studied in combinatorial game theory, which has developed novel representations, e.g.

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surreal numbers, as well as combinatorial and algebraic (and sometimes non-constructive) proof methods to solve games of certain types, including "loopy" games that may result in infinitely long sequences of moves. These methods address games with higher combinatorial complexity than those usually considered in traditional (or "economic") game theory.

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SEQUENTIAL QUIZ SHOW (n, m) : Three players, Ann, Beth, and Cindy, have a difficult multiple choice question with five choices. Starting with Ann and continuing cyclically, the player whose move it is can answer or wait. If the player answers correctly, the player gets \$ n . If the answer is incorrect, the player pays \$ m and is out of the game.

Example: Sequential Quiz Show I (Chapter 17) - Game Theory ...
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Example: Mini Blackjack and Card Counting (Chapter 19 ...
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