

Artificial Intelligence 2

Quiz #07 (Decisions with multiple agents)

What is a difference between pure and mixed strategies?

Describe prisoner's dilemma. Why is it called dilemma?

What is a dominant strategy? What does it mean that a strategy is truth-revealing.

What is a Nash equilibrium?

Describe maximim algorithm.

What is a repeated game? Is there a difference between knowing and not knowing how many times the game will be repeated?

What is a good strategy if we do not know the number of repetitions?

What is auction? What is the main difference between English and Holland auctions?

What is a rational strategy for the English auction?

What are the major problems and advantages of English auction? Why English auction discourages competition? What is a collusion? Give some example how collusion can be realized via auction rules.

Explain sealed-bid and Vickrey auctions. What is the major difference between them? What are the rational strategies for these auctions?

What is tragedy of commons. Give at least three examples. How is this problem solved?

What is the difference between mechanism design and theory of games?