Game theory for dummies

Zero-Sum Game

A zero sum game is a mathematical representation of a system where the gains are completely evened out by the losses; this means that the sum of the utilities of all players will always be zero.

Quantum strategies

D.A. Meyer [5] demonstrated that in a classical two-person zero-sum strategic game, if one person adopts a quantum strategy, then he has a better chance of winning the game.

Since the resutl of a quantum game is determined by the measurement outcome of the final state instead of the actions taken by players, each stage of a quantum game also ought to be set via a quantum measurement of a current state.

The reason for its notoriety rests mainly in its counter-intuitive nature. Although the Monty Hall problem can be modeled as a Bayesian probability problem, human beings have difficulty in grasping the probabilities involved.