

# 1 Literature Review / Background

## 1.1 Game Theory

Game theory is the study of behaviours and mathematical models which result from the decisions and strategies of two or more rational players in either cooperative or non-cooperative strategy games. Applications of game theory have manifested in social science, psychology, mathematics and many more fields of study; however, the root interactions lie in zero-sum games such as the prisoners dilemma.

Game theory was introduced and popularised by mathematician John von Neumann,