

Introduction

Game theory has excisted existed for millennia and has been in-applied to many several formssituations; , ranging from for example, historical events (such as Spains' Spain's rebellion on against Rome in 75 BCE ([McCain_2010),-]), biological models (such as natural selection), market environments (such as oligopolyoligopolies)-, politics (such as election bidding), and computer science to name few. This field of applied mathematics captures behaviour behavior in strategic situations (called -games-), wherein the success (payoff) of the choice made by an individual (the (player-) is dependent on the choiceesmade choices made by others² (other players) (Myerson, 1991)-.

The three main mathematical models of games are the *extensive* form, the *strategic* form, and the *coalition* forms.- The bases of difference in one of these models is which differ in terms of the amount of detail provided $\pm e.g.$, the players, their preferences, their information, the strategic actions available to them, and how these influence the outcome?

In this paper <u>Herein</u>, we describe the *strategic* form and study <u>its the underlying</u> phenomena in a <u>business</u> <u>management</u> case <u>of management</u>____labor negotiation at <u>an</u> automobile factory.

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www.enago.com | www.enago.com.tr | www.enago.com.br | www.enago.de | www.enago.tw | www.enago.cn | www.enago.co.kr | www.enago.ru **Comment [A1]:** Using 'and has' here makes the two verb phrases equivalent.

Comment [A2]: This phrase is not needed, it is more conversational.

Comment [A3]: We have followed American English spellings throughout the document.

Comment [A4]: A substantive edit ensures that the sentence structure is made concise and formal while maintaining the author's meaning.

Comment [A5]: Academic writing should not contain lengthy and wordy sentences as they can hamper clarity.



3 <u>Three</u> objects define the *strategic* form of a game: 1) the set of players. $N = \{1, 2, ..., n\}$ the sequence of the players' strategy sets: X_1, \ldots, X_n and 3) the sequence of player's pay-off functions, **Comment [A6]:** Sentences should not begin with numerals. In academic writing, spell out the number when it begins a sentence.

 $f(a_1,...,a_n),...,f_n(a_1,...,a_n).$

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