

The poker game to teaching statistics

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Abstract

This work presents a proposal of teaching statistics with adapted use of the game Poker. It is considered the most popular card game in the world and it is usually played in casinos and nightclubs. Because of its popularity, the International Federation of Match Poker (IFMP) has achieved recognition of the game as a sport of the mind, as well as chess and checkers. Meanwhile, Statistics deals with the collection, analysis, interpretation and presentation of numerical data in large volume from a relatively small sample. Due to its importance, Statistics is required all engineering courses, and specifically for industrial engineering, it is the basis for areas of manufacturing systems, operational research, logistics and quality. The purpose of this article is to demonstrate the applicability of the Texas Hold'em poker game adapted for teaching probability to students of all engineering backgrounds, thus improving the teaching method of the discipline. A small adaptation of the rules of the game to develop logical reasoning and probability calculation quickly develops in students the ability to apply probability in the game. The application of Poker encourages learning through competition by improving students' engagement in the study of probability calculation. The results of the application demonstrate greater assimilation of content and problem solving by the students.

Keywords

Probability. Mental sport. Logical Reasoning.

Biographies

Matheus Pedroso is a Brazilian Industrial Engineering student at FACENS. Matheus already had some experience with the multinationals Schaeffler Group and Continental Automotive, and nowadays his focus is improve his acknowledges about Industrial Engineering.

Rodrigo Luiz Gigante is currently a fulltime Professor at the Faculty of Engineering of Sorocaba (FACENS), Bachelor of Applied Mathematics and Scientific Computing from the University of São Paulo (2007) and Master in Production Engineering from the University of São Paulo (2010)., with experience in the area of Production Engineering, with emphasis on Operational Research, acting on the following subjects: Scheduling, Queue Theory, Production Programming and Project Management.