

Research on information propagation using an analysis of odds movement in horse racing

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Our purpose of the study is to achieve an idea for fluctuation on information propagation. As a first step, we focus on the odds in horse racing to study the information propagation. Analyzing past data of horse racing, and constructing mathematical model of winning probability, we find a correlation between primary information and a result of races. In this study, we investigate the dependence on the race condition, such as a grade of races, in order to survey on which condition our model agrees better. Consequently, we confirm that our model works well.

Keywords: propagation and correlation of information