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For next time, like in articles you are reading, come up with a title that is more specific to the work you are planning to do

# EFFECTIVENESS OF PORTFOLIO REBALANCING FROM AN EMPIRICAL STANDPOINT

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## ABSTRACT

## 1 INTRODUCTION

Rebalancing is an essential branch of the portfolio management theory. As for holding positions of portfolios, the manager should always aim at the tradeoff between risk and return in the dynamic financial market to improve the performance. Strategies including buy-and-hold and rebalancing could be effective tools to achieve the goal to maximize the portfolio value. However, it is a heated issue to discuss which tool is more superior, the buy-and-hold, the regular rebalancing at fixed time intervals or continual rebalancing?

The topic of portfolio rebalancing has been discussed since long time ago. By using geometric diffusion model, the probability that continually rebalancing outperforms the 'buy and hold' strategy has been evaluated by Wise (1996). However, it does not take into account a portfolio with more than two assets and it does not include transaction cost in the model. By using Black-Scholes framework Gabay and Herlemont (2007) further shows that with increasing time and volatility, the rebalancing portfolio can capture an excess growth against 'buy and hold' strategy. Bouchey et al. (2012) also draws the same conclusion that diversify and rebalance is beneficial to managing risk and enhancing returns in the long run. However, it is also stated that the cost of transaction is likely to outweigh the rebalancing benefit. Thus an effective control of transaction cost is highly needed. Also there are numerous literatures challenge the effectiveness of rebalance. By challenging "The Rebalancing Bonus" and pointing out the flaws in the mathematical reasoning, Edesess (2014) argues that rebalancing has no benefit on either increasing returns nor reducing risk. Based on that, Kitces (2015) states the value of rebalancing is dependent on the similarity of the returns between the assets within the portfolio. Edesess (2016) further claims that the misuse of the medians of the probability distribution in finance papers leads to wrong conclusion. Cuthbertson et al. (2016) also points out that the obvious benefits of rebalancing over infinite horizons cannot guarantee that it is the same over finite horizon.

Basically what we want to do is to discuss the effectiveness of rebalancing strategy and its efficiency using qualitative and quantitative analysis. Thus, a series of plans are by far included to facilitate and illustrate our research. Firstly, we evaluate the evidence, both pro and con, for rebalancing strategies and repeat some of the results to find out their advantages and disadvantages under different investment environments. Then, we are going to take into consideration more factors such as transaction costs, asset correlation, different return patterns, etc. Next, we use both historical market data and simulation to test our hypotheses. Finally, conclusions are drawn and a more clear picture of the effectiveness of rebalancing will be seen.

More formal: The objective of this project is to study the

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## 2 METHODS

## 3 RESULTS AND DISCUSSION

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Besides the comments made so far, try to

- make first paragraph a bit longer...
- add references referring to importance of rebalancing
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maybe by adding additional papers or talking in more detail about the ones you are referencing.

