# 湖南大学学报(自然科学版) Journal of Hunan University (Natural Sciences)

Vol. 48. No. 4. Apr. 2021

Open Access Article

# The Influence of Overconfidence, Representative Bias, and Risk Tolerance in Investment Decision Making: Evidence on Stock Investors in Indonesia

# I Gede Adiputra\*

Faculty of Economics and Business of Tarumanagara University, Jakarta, 11440, Indonesia

**Abstract:** The purpose of this study is to analyze the influence of overconfidence, representativeness bias, and risk tolerance on investment decision making, in which psychological factors can influence investors in making investment decisions based on emotional and cognitive factors. The sample collection is carried out using a purposive sampling technique on 230 stock investors in Indonesia. The data are analyzed using the *Smart PLS 3.2.8* application. This study indicates that overconfidence, representativeness bias, and risk tolerance significantly influence investment decision-making. The practical implications of this paper encourage investors to be wiser in relying on their overconfidence, representativeness bias, and risk tolerance on making investments. It provides awareness and understanding about controlling emotional and cognitive biases in investment management, which can be very useful for decision-makers and professionals in financial institutions. This paper helps investors choose better investment tools and avoids the repetition of expensive mistakes, which occur due to failure to recognize bias and valuation errors that make us all vulnerable to failing to make investment decisions. Thus, it is necessary to focus on specific investment strategies to control "mental mistakes" by investors.

Keywords: overconfidence, representativeness bias, risk tolerance, investment decision.

# 过度自信,代表性偏差和风险容忍度对投资决策的影响:对印度尼西亚证券投资者 的证据

摘要:本研究旨在分析过度自信,代表性偏差和风险承受能力对投资决策的影响。使用目标抽样技术对印度尼西亚的230名股票投资者进行了样本收集。使用智能偏最小二乘3.2.8 应用程序分析数据。这项研究的结果表明,过度自信,代表性偏差和风险承受能力对投资决策有重大影响。本文的实际含义鼓励投资者在进行投资时要依靠他们的过度自信,代表性偏差和风险承受能力。它提供了有关控制投资管理中的情绪和认知偏见的认识和理解,这对于金融机构的决策者和专业人员而言非常有用。本文可帮助投资者选择更好的投资工具,并避免重复出现昂贵的错误,这些错误是由于未能认识到偏见和估值错误而导致的,这些错误使我们所有人都容易做出投资决策失败。因此,有必要关注特定的投资策略,以控制投资者的"心理错误"。

关键字:过度自信,代表性偏差,风险承受能力,投资决策。

1. Introduction

Behavioral finance is a study of psychological factors that can influence investors in making investment decisions. After receiving information and facts from the company where it is invested, investors will make investment decisions based on emotional and

cognitive factors. The problem is these two factors tend to be susceptible to deviation or bias. Behavior finance assumes that investment decisions can be irrational due to imperfect information [1], bound rationality [2], anomalies [3], fundamental heuristics [4], psychological bias [4] or behavioral bias [5], and

psychological or mental investors play a key role in understanding irrational decision making.

Cognitive bias is the process of understanding, processing, and drawing conclusions based on information or facts obtained. Cognitive bias describes deviations in the process, while emotional bias is an emotion that emphasizes feelings rather than facts. Emotional bias illustrates investors' mistakes in making decisions because of ignoring the facts.

In making a decision, investors tend to lead to overconfidence, which is an emotional Overconfidence is related to how much prejudice or feeling about how well someone understands their abilities and limits their knowledge. That is supported by [5], which states overconfidence is a bias that pertains to how well people understand their abilities and the limits of their knowledge. The consequence of overconfidence is that investors will overestimate their ability to evaluate a company as a potential investment, tend to trade excessively (overtrading), underestimate risk. As a result, it can produce a poor performance portfolio that shows Overconfidence causes investors to overestimate their knowledge, underestimate risk and overestimate their ability to control what happens. Investors believe that the investment will get a high return and has low risk, even though this cannot be guaranteed and may not happen because it may lead to wrong expectation. This type of bias can influence an investor's decisionmaking. In a study conducted by [7], investors who frequently buy and sell shares tend to have increased confidence. Overconfidence can cause investors to carry out excessive trade transactions that result in a low portfolio return obtained. [8-9] examine the theoretical relationship between self-confidence and trade frequency, which provides empirical evidence that male investors are more confident and more willing to take risks than women investors. Based on the results of [10], overconfidence has a positive influence on investment decision-making. Research with the same results is also found by [11] that overconfidence has a significant positive effect on investment decision making. Also from [12] reveals that overconfidence has a significant positive effect on investment decision making.

Representativeness bias is a mental shortcut and is defined as a tendency to connect one characteristic with another [13] irrationally. Investors affected by representativeness bias can become overconfident and may ignore the sample size and average returns on the investment. The consequence of representativeness bias is investors tend to adopt estimation based on small samples and trust their beliefs using simple classifications instead of complex data. [14] finds that representativeness bias has a significant positive influence on investment decision making in Islamabad Stock Exchange. The same thing is stated by [15] that representativeness bias significantly influences

investment decision-making. However, according to [16] research, representativeness bias significantly negatively affects investment decision-making.

Risk tolerance is how far a person chooses to experience less favorable risks to have the opportunity to obtain more favorable results [17]. Investors with a high level of risk tolerance mean giving greater tolerance to risks that can cause losses, making someone bolder in accepting risk. In comparison, investors with a lower level of risk tolerance mean having less tolerance for risk, so investors tend to choose to avoid risk. According to [18], the investigation of risk tolerance includes psychological factors and includes demographic, socio-economic, and attitude factors because considerations such as gender, age, marital status, income, and employment can influence individual level in risk-taking on daily money problems. According to research conducted by [12], risk tolerance has a significant positive effect on investment decision-making. Research with the same results conducted by [19] states that risk tolerance positively affects investment decision-making.

The novelty of this study is that it examines investor decisions that are influenced by psychological factors and include demographic, socio-economic, and attitudinal factors so that this study will provide more comprehensive results.

# 2. Literature Review

#### 2.1 Investment Decision

The function of the financial manager is to find and analyze more than one investment alternative then an alternative investment decision is taken. This decision is very important to make the company grow. The more developed a company is, the more management must continue making investment decisions, such as business expansion, opening branches, or establishing other companies [20]. According to [21], investment can be defined as the commitment of funds to one or more assets held over some future period. Investment decision-making is how financial managers can allocate company funds in investments that will bring benefits in the future. In making investment decisions, several important factors are the basis for consideration in determining investment choices. These factors are demographic variables, such as age, gender, experience, education level, and income level [22].

According to [23], there are concepts in investment decisions. The first one is the expected rate of return. In the context of investment, it is necessary to pay attention to expected returns. The second is a risk. In investing, investors must be expecting high returns. However, it should be noted how much risk must be handled in investing. The third concept is the relationship between the level of risk and expected return. Ideally, the relationship between the level of risk and expected return is a parallel and linear

relationship. In [24] explained the indicators in investing, such as investor security, risk coverage, and future planning.

#### 2.2 Behavior Finance

Behavior finance is parallel with the developments in the academic and business world. There are behavioral aspects in financial or investment decision-making. That is inspired by the increasing role of behavior as a determinant in buying and selling shares. The discussion on behavior finance is also conducted by [25]. [25] states that behavioral finance is a theory based on psychology that seeks to understand how emotions and cognitive deviations can influence investor behavior.

Emotional aspects or biases usually focus on feelings and spontaneity rather than the facts. The emotional bias can be in the form of overconfidence bias, loss-aversion bias, self-control bias, status-quo bias, endowment bias, regret-aversion bias, and greed bias. On the other hand, aspects of cognitive bias are deviation caused by information owned by investors, such as a brief assessment of a company without indepth analysis. Cognitive bias can be in the form of representativeness bias, anchoring & adjustment bias, availability bias, self-attribution bias, conservatism bias, confirmation bias, and the illusion of control.

#### 2.3 Overconfidence

One of the emotional biases is overconfidence. Excessive beliefs can be explained as unwarranted beliefs in a person's reasoning, judgment, and cognitive abilities. The concept of overconfidence is taken from many cognitive psychology experiments and surveys in which subjects exaggerate their predictive abilities and the accuracy of the information given to them. tend to have overconfidence who overestimate their knowledge and underestimate their predictions. That is because investors believe they have high capabilities [26]. That happens because investors who have made two or three investment transactions already feel quite confident in their ability to make investment decisions.

According to [2], four mistakes often arise as a result overconfidence behavior. First. overconfidence can cause investors to trade excessively because they think they have special knowledge that is not owned. Second, overconfidence can cause investors to underestimate risk. Third, overconfidence can cause investors to overestimate investment values. Fourth, investors may not diversify in their investment portfolios, which can increase the risks. Investor demographic factors such as age, gender, education, and investment duration or experience are expected to influence investor overconfidence. [8] and [27] conclude that men are more courageous in taking highrisk investment products because men tend to have overconfidence than women.

According to research conducted by [28], employees are more vulnerable to being overconfident because they already make their own money to make more investments. According to [16], overconfidence can be measured using indicators, such as knowledge of the stock market, confidence in their abilities, confidence to get more returns, investments to make money quickly, and having a better investment record.

There is a connection between overconfidence and investment decision-making. According to [29], rational outnumbered investors are bv overconfidence one. It can make the average investor's utilities decrease and cause aggressive trading when the overconfidence one sees an opening. Research conducted by [12] concludes that overconfidence has a significant positive effect in making investment decisions. Investors who have overconfidence in knowledge are optimistic and able to control portfolio performance. The same thing is stated by [16] that overconfidence has a positive and significant effect on investment decision-making. However, according to [30], overconfidence does not influence investment decision-making. Thus, the first hypothesis the researcher propose in this research is:

*H1:* Overconfidence influences Investment Decision Making.

#### 2.4 Representativeness Bias

One of the cognitive biases is representativeness bias. Representativeness bias relies on stereotypes to form opinions or decisions that are fast but irrational [5]. Meanwhile, according to [13], representativeness bias is a person's mental shortcut and is defined as a tendency to connect one characteristic with another irrationally. Representativeness bias can make a person or investor simply think that if a company has a good performance, it will continue to the future performance and ignore the previous performance (good company means good investment). This bias also thinks that if the company has bad performance and fails, then the future performance will also result in bad performance.

There are two types of representativeness bias. The first one is the base level of neglecting which means that investor neglects other information that they think is wrong or irrelevant in investment decision making. The investor relies on their point of view without thinking of any other possibilities [2]. The second is neglecting the sample size, which happens when the decision-makers try to generalize the investment based on few samples [31]. [15-16] and [32] state that indicators of representativeness bias are avoiding investments that have a bad history, relying on past performance, analyzing past performance determine future performance, considering past performance before investing, and thinking that wellknown companies can provide good performance.

There is a connection between representativeness bias and investment decision-making. According to [14], if investors want to follow their past trends, they will take information sharply and take advice from experts to make investment decisions. [33] finds a positive relationship between representativeness bias with investment decision making in the Islamabad Stock Exchange, which means investors can get more returns by using representativeness bias. The same thing is stated by [30] that there is a positive relationship between representativeness bias and investment decision-making. However, according to [16], representativeness can have a negative influence on investment decision-making. Thus, the second hypothesis the researcher proposes is:

*H2:* Representativeness bias influences investment decision-making.

#### 2.5 Risk Tolerance

Risk tolerance is the level of an investor's ability to accept investment risk. According to [18], in making modern investment decisions, knowing one's risk tolerance is very important in developing investments and future financial plans, besides knowing one's goals, financial stability, and time horizon. The same thing is said by [34] that risk tolerance plays an important role in making decisions and achieving financial goals. Risk tolerance can help someone understand the level of risk from an investment and help the investors tolerate the existing risks to suit the investment objectives. Thus, the known risk can be accepted by investors following the level of return that will be received in the future. [35-36] describe that the indicators used to measure risk tolerance are choosing high-risk investments to get high returns, considering profits are more important than security, believing that risks do not always suffer losses, investing without consideration, and willing to accept if the investment fails.

Risk tolerance can affect investment decision making which can be influenced by several factors such as gender, age, income, education, and investment experience. Investors who are happy to take risks (risk seekers) can risk their assets to get a lot of returns, but investors who do not like risk (risk averter), prefer to get a small return rather than experiencing many losses. According to [12], risk tolerance has a positive and significant influence on investment decision-making. The same result can be found in the research conducted by [24] that risk tolerance significantly affects investment decision-making. [19] also state that risk tolerance has a significant influence on investment decision-making. Thus, the third hypothesis that can be formulated is:

*H3:* Risk Tolerance affects Investment Decision Making.

#### 3. Methods

The population used in this research is that people in Indonesia who are interested in investing through stock ownership. As it is unknown how certain the community is interested in investing, the researcher takes the samples at least 10 multiplied by the number of questionnaire items [37]. Thus, this study takes 230 respondents, which are considered sufficient to represent the population.

The author uses a non-probability sampling technique that does not provide equal opportunities for each sample. This research is conducted by distributing questionnaires online during December 2019 through WhatsApp, line messenger, and email created using Google Form. Then, the results of the questionnaire are carried out by statistical tests using PLS (Partial Least Squares) software. Statistical tests are conducted to test the research hypothesis.

Overconfidence variable, according to [16], is measured using these indicators:

- 1. Knowledge of the stock market.
- 2. Confidence in one's abilities
- 3. Confidence to get more return
- 4. Investment to make money quickly
- 5. Have a better investment record.

Representativeness Bias is the tendency of investors to make decisions based on tangible characteristics only. Representativeness bias has a significant effect on investment decision-making. According to [15-16] and [32], indicators in the representativeness bias are:

- 1. Avoiding investments that have a bad history.
- 2. Relying on past performance.
- 3. Analyzing the past performance can determine future performance.
  - 4. Considering past performance before investing.
  - 5. Famous companies can give good performance

*Risk Tolerance* is how far a person chooses to experience less favorable risks to have the opportunity to obtain more favorable results. The indicators used in risk tolerance according to [35-36] are:

- 1. Choosing high-risk investments to get high returns.
  - 2. Profit is more important than security.
  - 3. Believing that risk does not always suffer loss.
  - 4. Investing without consideration.
  - 5. Willing to accept if the investment fails.

Investment Decision Making is a policy to determine the deposit of funds and how long they want to keep the funds. Indicators in investment decision making according to [24] are:

- 1. Investor security
- 2. Risk coverage
- 3. Future planning

The analytical method used in this research is the PLS (Partial Least Squares) method. According to [38], PLS is a predictive technique that handles many independent variables, even if multicollinearity exists between these variables. This method aims to determine the direct effect of each independent variable on the dependent variable and test the hypotheses that have been made in this study. PLS method suits this study because, according to [37], the use of PLS-SEM

method is to analyze data that do not have to be normally distributed, and the number of samples does not have to be large. In this analysis technique, there are an outer model test and inner model tests. The outer model test connects latent variables with indicators such as *convergent validity*, *composite reliability*, *Cronbach alpha*, and *cross-loading*. The inner model tests are structural models that describe the relationship between latent variables. There are 3 tests in the inner model:

### a. R Square (Determination Coefficient)

According to [36], if the R-Square is 0.25, then the model is considered weak. If the R-square is 0.50, then the model is considered moderate. Meanwhile, if the R-square is 0.75, then the model is considered strong.

# b. Q Square

Q square is also known as Stone-Geisser's. Q Square test is used to determine predictive capabilities. Q Square is considered large if the value is above 0.35, while it is considered moderate if the value is 0.15 and it is considered small if the value is 0.02.

### c. Hypothesis test

The hypothesis can be tested using a significant level on the research model. A significant level can be seen from the T value. The T value must be above 1.96 if the model wants to be considered significant [39].

## 4. Research Result

Statistical analysis will be carried out by testing the outer and inner models. The outer model test is used to test validity and reliability. Furthermore, the inner model test is used to test the hypothesis, Q Square, and the coefficient of determination. The research model presented in Fig. 1 presents how each variable will relate to one another as a causal variable based on previous theoretical studies. The number of indicators

in each variable will be used for research. Data analysis using Smart-PLS application software.

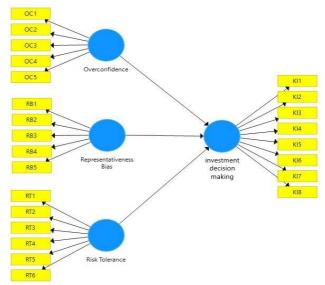


Fig. 1 Research model

In Fig. 1, the Overconfidence (OC) variable is measured by five indicators, five indicators measure the Representativeness Bias (RB) variable, six indicators measure the Risk Tolerance (RT) variable, and eight indicators measure the Investment Decision Making (KI) variable.

The cross-loading test is carried out to strengthen the validity test using Convergent Validity. The indicator is declared valid if it has the highest cross-loading value in the intended construct compared to other constructs. According to [37], this indicator must be greater than the same indicator from other variables in one line.

	Table 1 Validity test with cross loading					
	Overconfidence	Representativeness Bias	Risk Tolerance	<b>Investment Decision</b>		
OC1	0.792	0.267	0.298	0.386		
OC2	0.828	0.365	0.371	0.399		
OC3	0.843	0.391	0.311	0.397		
OC4	0.781	0.456	0.435	0.467		
OC5	0.841	0.356	0.297	0.349		
RB1	0.321	0.863	0.114	0.297		
RB2	0.371	0.842	0.116	0.312		
RB3	0.371	0.837	0.108	0.319		
RB4	0.348	0.783	0.143	0.405		
RB5	0.428	0.845	0.121	0.510		
RT1	0.287	0.117	0.783	0.264		
RT2	0.337	0.142	0.817	0.401		
RT3	0.347	0.128	0.782	0.307		
RT4	0.331	0.138	0.819	0.412		
RT5	0.321	0.171	0.807	0.317		
RT6	0.307	0.112	0.787	0.253		
KI1	0.484	0.421	0.307	0.749		
KI2	0.353	0.345	0.261	0.719		
KI3	0.371	0.373	0.317	0.717		
KI4	0.472	0.121	0.413	0.732		
KI5	0.402	0.201	0.194	0.709		
KI6	0.342	0.371	0.343	0.771		
KI7	0.436	0.431	0.303	0.798		
KI8	0.347	0.421	0.365	0.766		

Cronbach's alpha, Rho\_A, and Composite Reliability tests are examples of reliability tests. According to [39], the suggested construct value is> 0.7. The following is the reliability test presented in Table 2.

Table 2 Reliability test results

	Cronbach's	Rho_A	Composite
	Alpha		Reliability
Overconfidence	0.832	0.861	0.897
Representativeness	0.879	0.878	0.907
Bias			
Risk Tolerance	0.837	0.838	0.885
Investment Decision	0.857	0.863	0.889

In Table 2, the variable OC (Overconfidence), RB (Representativeness Bias), RT (Risk Tolerance), and KI (Investment Decision Making) declared reliable because it has a value of Cronbach's Alpha and Composite Reliability above 0.7.

Inner Model Test. Determination Coefficient Test, Q Square, and Hypothesis testing obtained the following results are obtained:

Table 3 The result of R-square and Q-square (Own research with

Smart FLS 3.2.8)					
	R. Square	R Square Adjusted	$\mathbf{Q}^2$		
Investment	0.472	0.467	0.215		

Table 3 shows that the R-Square Adjusted value of the Investment Decision Making variable is 48.70% and the remaining 51.30% is explained by other variables not examined in this study. The Q Square Test, also known as Stone-Geisser's, is used to know predictive capabilities. Q Square is considered large if the value is above 0.35, moderate if it is 0.15, and small if it is 0.02. In the table above, the value of the Q Square is 0.215. It means the prediction obtained is considered moderate.

To test the hypotheses, a t-statistic test is carried out. The criteria for accepting the hypothesis in this study must have a t-statistic value greater than 1.96, and the P values must be less than 0.05. The following hypothesis test results in this study are presented in Table 4.

Table 4 Hypothesis test results

Original	t-Statistic	P Values
Sample	(O/STDEV)	
0.328	2.822	0.005
0.278	2.601	0.017
0.272	3.327	0.001
	Sample 0.328 0.278	Sample         (O/STDEV)           0.328         2.822           0.278         2.601

Table 4 shows the value of the overconfidence original sample of Investment Decision Making, which is 0.328. By looking at the t-statistic value of 2,839 and P-Values of 0.005, it can be seen that the overconfidence variable has a significant influence on Investment Decision Making. Therefore, the first hypothesis is not rejected.

Table 4 shows the value of the original sample of Representativeness Bias variable on Investment Decision Making, which is at 0.278. Representativeness Bias variable significantly influences Investment Decision Making with a t-statistic value of 2.561 and P-Values of 0.017. Therefore, the second hypothesis is not rejected.

Table 4 clearance variable for Investment Decision Making, which is at 0.272. The Risk Tolerance variable significantly influences Investment Decision Making with a t-statistic value of 3,327 and P-Values of 0.001. So thus, the third hypothesis is not rejected.

#### 5. Discussion

Overconfidence is an exaggerated belief that can be explained as an unwarranted belief in an individual's judgment, reasoning, and cognitive abilities. In this study, overconfidence has a significant influence on Investment Decision Making. That means that the more confidence investors have, the more willing they are to choose investments with a higher risk because investors who have overconfidence will be more confident in investment decision-making. That shows that in making decisions, investors are influenced by overconfidence bias. The majority of respondents in this study consisted of young investors. Young investors could be affected by overconfidence bias because young investors have high enthusiasm and motivation to study the world of investment. The higher the level of overconfidence bias, the more confident the investors think that the investment plan will succeed because they feel they can predict and identify stocks that will be profitable in the future. The results of this study are in line with research by [40-44]. However, the results are different from the studies conducted by [30], which state that overconfidence does not affect individual investment decision-making.

Representativeness bias is the tendency of investors to make decisions based on tangible characteristics and past experience. The results of this study indicate that representativeness bias has a significant influence on Investment Decision Making which means they assume that past performance will be able to determine future performance, do not analyze deeply, and the only judge based on its characteristics, such as the term "good company means good investment ". In addition, it can also cause investor behavior to extrapolate past returns to future returns. That can happen because investors are encouraged by past stock performance. When investors have problems in investment, they will analyze based on the situation or experience they have in the past. Investors will think that the problems faced today are relatively the same as those experienced in the past. They will try to solve the current problem with the previous way without further analysis. In addition, investors are unwilling to invest in shares owned by companies that produce products or services where the morale is inappropriate or inappropriate (for example, adult entertainment companies, tobacco, or using child labor). This behavior also makes investors in Indonesia behave rashly in making investment decisions. This rash behavior reduces the complexity of analyzing investment information because investors will not think long in analyzing information relating to the purchase of shares. Information about the stock price is not analyzed, but the investors immediately decide that the stock is worth buying without looking at fundamental or technical analysis. From experience, the concept and mindset of an investor can change quickly. That is what makes investors think stereotypically. If they think the investment is good, then forever it will be good. The results of this study are supported by research conducted by [14], [42], [45-49]. However, different research results are conducted by [16], who state that representativeness bias has a negative effect on investment decision making.

Risk Tolerance is a benchmark or level of an investor's ability to accept investment risk and is considered a factor influencing investors in making investment decisions. This study indicates that Risk Tolerance has a significant influence on Investment Decision Making, which means that if investors can determine themselves to have risk tolerance based on instruments, investment objectives, profits, investment funds, investors will be easier to make investment decisions. Risk tolerance is related to emotional factors towards investment decisions. The feeling of investors who are afraid of losses will affect their decisions in determining risk tolerance. Investors should find it easy to determine appropriate risk tolerance if investors have determined risk tolerance based on instruments, investment objectives, profit potential, and investment funds. Therefore, it is very important to understand the loss incurred to get the profit following expectations. That way, investors can adjust the investment portfolio in accordance with the specified risk tolerance. Therefore, investors need to understand the extent of their ability to accept risks in investment decision-making so that the benefits and risks borne are in line with expectations. Researches with the same results are also conducted by [24], [50].

#### 6. Conclusion

Based on statistical tests, hypothesis tests, and discussion, the research can be concluded that overconfidence has a significant influence investment decision making. Potentially, overconfidence can cause investors to make investment mistakes. Representativeness bias has a significant influence on investment decision-making, which can cause investors to increase the intensity and amount of investment and be more courageous in taking investment risks. Risk tolerance has a significant influence on investment decision-making; investors need to understand the extent of their ability

to accept risks in investment decision-making. The benefits and risks borne are in line with expectations.

# Acknowledgment

This research was supported by Tarumanagara University, where the author served as a lecturer. We thank DR. Sawidji Widoatmodjo, SE, MM, as Dean of the Faculty of Economics and Business at Tarumanagara University, who provided insights and expertise that were very helpful in this research.

# References

- [1] BIKHCHANDANI S., & SHARMA S. Herd behavior in the financial market. IMF Staff Papers, 2001, 47: 279–310. <a href="https://www.imf.org/External/Pubs/FT/staffp/2001/01/pdf/Bikhchan.pdf">https://www.imf.org/External/Pubs/FT/staffp/2001/01/pdf/Bikhchan.pdf</a>
- [2] POMPIAN M. Behavioral Finance and Wealth Management How to Build Optimal Portfolios That Account for Investor Biases. John Wiley & Sons, Inc., Hoboken, New Jersey, 2006. https://www.academia.edu/38607180/Behavioral Finance and Wealth Management How to Build Optimal Portfolios That Account for Investor Biases
- [3] AJMAL S., MUFTI M., and SHAH Z.A. Impact of illusion of control on perceived efficiency in Pakistani financial markets. *Abasyn Journal of Social Sciences*, 2011, 5(2): 5100-5110.

http://ajss.abasyn.edu.pk/admineditor/papers/V5I2-7.pdf

[4] BAKER K. H., & NOFSINGER R. J. Psychological biases of investors. *Financial services review*, 2002, 11: 97-116

https://go.gale.com/ps/anonymous?id=GALE%7CA1491660 64&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn= 10570810&p=AONE&sw=w

- [5] SHEFRIN H. Beyond Greed and Fear: Understanding Behavioral Finance and Psychology of Investing. Harvard Business School Press, Boston, 2000.
- [6] ADY S. U., SUDARMA M., SALIM U., and AISYAH S. Psychology's Factors of Stock Buying and Selling Behavior in Indonesia Stock Exchange (Phenomenology Study of Investor Behavior in Surabaya). *IOSR Journal of Business and Management (IOSR-JBM)*, 2013, (7)3: 11-22. http://www.iosrjournals.org/iosr-jbm/papers/Vol7-

issue3/C0731122.pdf

- [7] CHANDRA A. Individual Investor's Trading Behavior And The Competence Effect. *Journal of Behavioral Finance*, 2009, 6(1): 56–70. <a href="https://www.iupindia.in/309/IJBF\_Investors%E2%80%99\_Trading\_Behavior\_56.html">https://www.iupindia.in/309/IJBF\_Investors%E2%80%99\_Trading\_Behavior\_56.html</a>
- [8] GRAHAM J. R., HARVEY C. R., and HUANG H. Investor competence, trading frequency, home bias'. Management Science, 2009, 55(7): 1094-1106. https://faculty.fuqua.duke.edu/~charvey/Research/Working Papers/W76 Investor competence\_trading.pdf
- [9] BARBER B., & ODEAN T. Trading is Hazardous to Your Wealth: the Common Stock Performance of Individual Investors. *Journal of Finance*, 2000, 55: 773-806. <a href="https://faculty.haas.berkeley.edu/odean/papers%20current%2">https://faculty.haas.berkeley.edu/odean/papers%20current%2</a> Oversions/individual investor performance final.pdf
- [10] WIBISONO O. P. Pengaruh kompetensi dan kepercayaan diri yang dimiliki investor terhadap perilaku

- perdagangan saham. Journal of Business and Banking, 2013, 3(1): 47-56. http://dx.doi.org/10.14414/jbb.v3i1.253
- [11] RACHMAN A.R.A. Pengaruh Overconfidence Bias dan Bias Optimisme Terhadap Pengambilan Keputusan Investasi pada Investor di Yogyakarta. Universitas Islam Yogyakarta, Indonesia, https://dspace.uii.ac.id/bitstream/handle/123456789/7506/JU RNAL%20Aqib%20Rizka%20Ar-

Rachman.pdf?sequence=2&isAllowed=y

- [12] AINI N.S.N., & LUTFI. The Influence of Risk Perception, Risk Tolerance, Overconfidence, and Loss Aversion Towards Investment Decision Making. Journal of Economics, Business, & Accountancy, 2019, 21(3), 401-413. http://dx.doi.org/10.14414/jebav.v21i3.1663
- [13] KAHNEMAN D., & TVERSKY A. Prospect Theory: An Analysis of Decision Under Risk. Journal of The Society, 1979, 47(2): https://www.jstor.org/stable/1914185?seq=1
- [14] IRSHAD S., BADSHAH W., and HAKAM U. Effect of Representativeness Bias on Investment Decision Making. Management and Administrative Sciences Review, 2016, 5(1): 26-30. <a href="https://www.semanticscholar.org/paper/Effect-">https://www.semanticscholar.org/paper/Effect-</a> of-Representativeness-Bias-on-Investment-Irshad-
- Badshah/f28b6024f29004e069204b91cb3d5aec649612e9 [15] RAMDANI F.N. Analisis Pengaruh Representativeness Bias dan Herding Behavior Dalam Pengambilan Keputusan Investasi (Studi Pada Mahasiswa di Yogyakarta). Universitas Islam Indonesia, Yogyakarta, https://dspace.uii.ac.id/bitstream/handle/123456789/10549/J <u>URNAL%20FEBI.pdf?sequence=2&isAllowed=y</u>
- [16] ALI SHAH S.Z., AHMAD M., and MAHMOOD F. Heuristic Biases in Investment Decision-Making and Perceived Market Efficiency. Qualitative Research in Financial Markets, 2017, 10(1) 85-110. https://www.emerald.com/insight/content/doi/10.1108/QRF M-04-2017-0033/full/html
- [17] ROSZKOWSKI M. J., SNELBECKER G.E., and LEIMBERG. Effects of framing on measures of risk tolerance: financial planners are not immune. The Journal of Economics, 1993. 9(3): 237-246. **Behavioral** https://doi.org/10.1016/0090-5720(90)90029-7
- [18] GRABLE J. E. Financial Risk Tolerance And Additional Factors That Affect Risk Taking in Everyday Money Matters. Journal of Business and Psychology, 2000, 14(4): 625-630.

https://www.jstor.org/stable/25092698?seq=1

[19] NGUYEN T.M., GALLERY G., and NEWTON C. The Influence of Financial Risk Tolerance on Investment Decision-Making in a Financial Advice Context. Australasian Accounting, Business and Finance Journal, 2016, 10(3): 3-22. https://pdfs.semanticscholar.org/338f/88429f3868c706f9da5

6abdf0ba0b10a7e68.pdf?\_ga=2.88902040.2086095349.1621

<u>509185-2119530004.1620912626</u>

- [20] SUTRISNO. Manajemen Keuangan Teori, Konsep dan Aplikasi. Ekonisia, Yogyakarta, 2012.
- [21] CHARLES P. J. Investment Principles and Concepts. 12th ed. John Wiley and Sons, Singapore, 2014.
- [22] LEWELLEN W. G., LEASE R. C., and SCHLARBAUM G. C. Patterns of Investment Strategy and Behavior among Individual Investor. Journal of Business, 1977, 50(3): 296-333.

https://www.jstor.org/stable/2352539?seq=1

- [23] JANOR H., YAKOB R., HASHIM N. A., and CHE WEL C. A. Financial literacy and investment decisions in Malaysia and United Kingdom: A comparative analysis. Malaysian Journal of Society and Space, 2016, 12(2): 106-118. https://ejournal.ukm.my/gmjss/article/view/17739
- [24] CHAVALI K., & MOHANRAJ M.P. Impact of Demographic Variables and Risk Tolerance on Investment Decisions: An Empirical Analysis. International Journal of Economics and Financial Issues, 2016, 6(1): 169-175. https://www.econjournals.com/index.php/ijefi/article/view/1 571
- [25] TILSON W. Applying Behavioral Finance to Value Investing. T2 Partners LLC, Denver, https://licz9g2sdfe31jz0lglwdu48-wpengine.netdnassl.com/wp-content/uploads/2012/07/BehavioralFinance-Tilson.pdf
- [26] NOFSINGER J., & SIAS R. Herding and feedback trading by institutional and individual investors. The Journal Finance, 1999, 54: 2263-2295.  $\underline{https://doi.org/10.1111/0022\text{-}1082.00}188$
- [27] JAIN D., & MANDODT E. Impact of Demographic Factors on Investors in Rajasthan. Journal of Arts, Science & 2012, 3(2): http://www.ijlemr.com/papers/volume2-issue12/19-IJLEMR-22575.pdf
- [28] BASHIR T., SAFIA F., IRUM S., WAQAS A., and GHULLAM J. Impact of Demographics and Personality traits on Confidence level: Determinants of overconfidence (Evidence from Employees and Students). IOSR Journal of Business and Management, 2013, 10(1): http://www.iosrjournals.org/iosr-jbm/papers/Vol10-

issue1/G01015867.pdf

- [29] ODEAN T. Do Investor Trade Too Much? The American Economics Review, 1999, 89(5): 1279-1298. https://www.aeaweb.org/articles?id=10.1257/aer.89.5.1279
- [30] AIGBOVO O., & ILABOYA O.J. Does Behavioral Biases Influences Individual Investment Decisions. *Management Science Review*, 2019, 10(1): 68-89.
- [31] BARBERIS N., & THALER R. A Survey Of Behavioral Finance. National Bureau of Economic Research, 2003. Cambridge,

https://www.nber.org/system/files/working\_papers/w9222/w 9222.pdf

- [32] RASHEED M.H., RAFIQUE A., ZAHID T., and AKHTAR M.W. Factors Influencing Investor's Decision Making in Pakistan. Review of Behavioral Finance, 2017, 10(1): 70-87. https://doi.org/10.1108/RBF-05-2016-0028
- [33] KHAN A.Q, & SANA I. Testing Semi-Strong Form of Efficient Market Hypothesis in Relation to the Impact of Foreign Institutional Investors' (FII's) Investments on Indian Capital Market. International Journal of Trade, Economics 1(4): Finance, 2010, http://www.ijtef.org/papers/66-F490.pdf
- [34] ANBAR A., & MELEK E. An Empirical Investigation for Determining of the relation Between Personal Financial Risk Tolerance and Demographic Characteristic. Age Academic Review, 2010, 10(2): 503-522. https://papers.ssrn.com/sol3/papers.cfm?abstract\_id=173223 6
- [35] ANGGIRANI N. Pengaruh Risk Tolerance, Overconfidence, dan Literasi Keuangan Terhadap Pengambilan Keputusan Investasi Masyarakat Surabaya. STIE Surabaya, 2017. Perbanas Surabaya, http://eprints.perbanas.ac.id/2841/

- [36] PUSPITASARI D.A. 2018. Pengaruh Literasi Keuangan, Overconfidence, dan Risk Tolerance Terhadap Keputusan Investasi Produk Pasar Modal. IPB University, Bogor, 2018.
- https://repository.ipb.ac.id/handle/123456789/94565
- [37] HAIR J.F., RINGLE C.M., and SARSTEDT M. PLS-SEM: Indeed a Silver Bullet. *Journal of Marketing Theory and Practice*, 2011, 19(2): 139-152. https://doi.org/10.2753/MTP1069-6679190202
- [38] RAMZAN S., & KHAN M. I. Dimension Reduction and Remedy of Multicollinearity Using Latent Variable Regression Methods. *World Applied Science Journal*, 2010, 8(4): 404-410. <a href="https://www.idosi.org/wasj/wasj8(4)10/3.pdf">https://www.idosi.org/wasj/wasj8(4)10/3.pdf</a>
- [39] GHOZALI I., & HENGKY L. Partial Least Squares: Konsep, Teknik dan Aplikasi Menggunakan Program SmartPLS3.0 edisi kedua. Universitas Diponegoro, Semarang, 2014.
- [40] LAKSHMI J., & MINIMOL M. C. Effect of Overconfidence on Investment Decisions: A Behavioural Finance Approach. *Splint International Journal of Professionals*, 2016, 3(2): 70-78. <a href="https://www.proquest.com/openview/021f5e75fea564cb8129">https://www.proquest.com/openview/021f5e75fea564cb8129</a> 90ee2ecc28a6/1?pq-origsite=gscholar&cbl=2044944
- [41] TREHAN B., & SINHA A. K. A Study of Existence of Overconfidence Biases Among Investors and Its Impact on Investment Decision. *ELK Asia Pacific Journals*, 2016, special issue: 1-15. https://www.elkjournals.com/microadmin/UploadFolder/85654%20STUDY%20OF%20EXISTENCE%20OF%20OVERCONFIDENCE%20BIASES%20AMONG%20INVESTORS%20AND%20ITS%20IMPACT%20ON%20INVESTMENT%20DECISION.pdf
- [42] TOMA F.-M. Behavioral Biases of the Investment Decisions of Romanian Investorson the Bucharest Stock Exchange. *Procedia Economics and Finance*, 2015, 32: 200-207.
- https://www.sciencedirect.com/science/article/pii/S22125671 15013830
- [43] BAKAR S., & YI A.N.C. The Impact of Psychological Factors on Investors' Decision Making in Malaysian Stock Market: A Case of Klang Valley and Pahang. *Procedia Economics and Finance*, 2016, 35, 319-328. <a href="https://www.sciencedirect.com/science/article/pii/S22125671">https://www.sciencedirect.com/science/article/pii/S22125671</a> 1600040X
- [44] ULLAH I., ULLAH A. and REHMAN N. U. Impact Of Overconfidence and Optimism on Investment Decision. *International Journal of Information*, 2017, 9(2): 231-243. <a href="https://www.proquest.com/openview/75c86b4b78219163772">https://www.proquest.com/openview/75c86b4b78219163772</a> 32a6e72eb1c58/1.pdf?pq-origsite=gscholar&cbl=2032142
- [45] SINA P. Financial Efficacy and Financial Satisfaction: ditinjau dari perbedaan Gender. *Jurnal Manajemen*, 2014, 12(2): 173-184. https://doi.org/10.28932/jmm.v12i2.164.
- [46] VIJAYA E. An Empirical Analysis on Behavioural Pattern of India Retail Equity Investors. *International Multidisciplinary Research Journal*, 2016, 6(12): 137-140. https://core.ac.uk/download/pdf/234696209.pdf
- [47] VIRIGINENI M., & RAO M. B. Contemporary Developments in Behavioral Finance. *International Journal of Economics and Financial Issues*, 2017, 7(1): 448-459. <a href="https://www.econjournals.com/index.php/ijefi/article/view/3">https://www.econjournals.com/index.php/ijefi/article/view/3</a> 809
- [48] STEPHANIE G., & NJO A. Pengaruh Pelaku Heristics dengan Herding terhadap Pengambilan Keputusan Investasi Proprti Hunian. *Finesta*, 2015, 3(2): 29-32.

- http://publication.petra.ac.id/index.php/manajemenkeuangan/article/view/3576
- [49] FANNY T. Pengaruh overconfidence, representativeness bias dan risk tolerance terhadap pengambilan keputusan investasi pada masyarakat di DKI Jakarta. Skripsi Jurusan Manajemen. Fakultas Ekonomi, Universtas Tarumanagara, Jakarta, 2020.
- [50] DEWI A. W., & IRAMANI R. Studi Experienced Regret, Risk Tolerance, Overconfidence, Dan Risk Perception pada Pengambilan Keputusan Investasi Dosen Ekonomi. *Journal of Business and Banking*, 2014, 4(1): 55-66. <a href="http://dx.doi.org/10.14414/jbb.v4i1.293">http://dx.doi.org/10.14414/jbb.v4i1.293</a>

#### 参考文:

- [1] **BIKHCHANDANI** S., 和 **SHARMA** S. 金融市场中的羊群行为。基金组织职员文件, 2001, 47: 279–310.
- $\underline{https://www.imf.org/External/Pubs/FT/staffp/2001/01/pdf/Bi}khchan.pdf$
- [2] POMPIAN M. 行为金融和财富管理—如何建立能够解决投资者偏见的最佳投资组合约翰·威利父子公司新泽西州霍博肯, 2006.
- https://www.academia.edu/38607180/Behavioral\_Finance\_a nd\_Wealth\_Management\_How\_to\_Build\_Optimal\_Portfolio s\_That\_Account\_for\_Investor\_Biases
- [3] AJMAL S., MUFTI M., 和 SHAH Z.A. 控制幻觉对巴基斯坦金融市场感知效率的影响。阿巴斯因社会科学杂志, 2011, 5(2): 5100-5110. http://ajss.abasyn.edu.pk/admineditor/papers/V512-7.pdf
- [4] BAKER K. H., 和 NOFSINGER R. J. 投资者的心理偏见。金融服务评论, 2002, 11: 97-116. https://go.gale.com/ps/anonymous?id=GALE%7CA149166064&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=
- [5] SHEFRIN H. 超越贪婪和恐惧:了解行为金融和投资心理学。哈佛商学院出版社,波士顿, 2000.

10570810&p=AONE&sw=w

- [6] ADY S. U., SUDARMA M., SALIM U., 和 AISYAH S. 印尼证券交易所股票买卖行为的心理学因素(泗水投资者行为的现象学研究)。国际科研组织工商管理杂志,
- 2013, (7)3: 11-22. <a href="http://www.iosrjournals.org/iosr-jbm/papers/Vol7-issue3/C0731122.pdf">http://www.iosrjournals.org/iosr-jbm/papers/Vol7-issue3/C0731122.pdf</a>
- [7] CHANDRA A. 个人投资者的交易行为和能力效应。行为金融杂志, 2009, 6(1): 56–70. https://www.iupindia.in/309/IJBF\_Investors%E2%80%99\_T rading\_Behavior\_56.html
- [8] GRAHAM J. R., HARVEY C. R., 和 HUANG H. 投资者能力,交易频率,本地偏向"。管理科学, 2009, 55(7): 1094-1106.
- https://faculty.fuqua.duke.edu/~charvey/Research/Working Papers/W76\_Investor\_competence\_trading.pdf
- [9] BARBER B., 和 ODEAN T. 交易危害您的财富:个人投资者的普通股表现。金融杂志, 2000, 55: 773-806.
- https://faculty.haas.berkeley.edu/odean/papers%20current%2 Oversions/individual investor performance final.pdf [10] WIBISONO O. P.
- [10] WIBISONO O. 投资者的能力和自信心对股票交易行为的影响.

商业与银行杂志, 2013, 3(1): 47-56. http://dx.doi.org/10.14414/jbb.v3i1.253 **RACHMAN** A.R.A. [11] 日惹过度自信偏差和乐观偏差对投资者投资决策的影响 。印度尼西亚伊斯兰大学,日惹, 2018. https://dspace.uii.ac.id/bitstream/handle/123456789/7506/JU RNAL%20Aqib%20Rizka%20Ar-Rachman.pdf?sequence=2&isAllowed=y AINI N.S.N., 和 LUTFI. 风险感知,风险承受能力,过度自信和对投资决策的损 失规避的影响。经济,商业与会计杂志,2019,21(3),401-413. http://dx.doi.org/10.14414/jebav.v21i3.1663 **KAHNEMAN** D., 和 **TVERSKY** 前景理论:风险决策分析。计量经济学学会杂志, 1979, 47(2): 263-291. https://www.jstor.org/stable/1914185?seq=1 [14] IRSHAD S., BADSHAH W., 和 HAKAM U. 代表性偏差对投资决策的影响。管理与行政科学评论, 2016, 5(1): 26-30. https://www.semanticscholar.org/paper/Effect-of-Representativeness-Bias-on-Investment-Irshad-Badshah/f28b6024f29004e069204b91cb3d5aec649612e9 **RAMDANI** F.N. [15] 代表性偏差和羊群行为对投资决策的影响分析(日惹学 生研究)。印度尼西亚伊斯兰大学,日惹, 2018. https://dspace.uii.ac.id/bitstream/handle/123456789/10549/J <u>URNAL%20FEBI.pdf?sequence=2&isAllowed=y</u> [16] ALI SHAH S.Z., AHMAD M., 和 MAHMOOD F. 投资决策中的启发式偏差和可感知的市场效率。金融市 2017. 10(1) 85-110. https://www.emerald.com/insight/content/doi/10.1108/QRF M-04-2017-0033/full/html [17] ROSZKOWSKI M. J., SNELBECKER G.E., 和 LEIMBERG. 框架对风险容忍度的影响:理财规划师不能幸免。行为 经济学杂志, 237-246. 1993. 9(3): https://doi.org/10.1016/0090-5720(90)90029-7 [18] E. **GRABLE** J. 金融风险容忍度以及影响日常理财风险承担的其他因素 。 商业与心理学杂志, 2000, 625-630. https://www.jstor.org/stable/25092698?seq=1 [19] NGUYEN T.M., GALLERY G., 和 NEWTON C. 金融咨询背景下金融风险容忍度对投资决策的影响。澳 大利亚会计,商业和金融杂志, 2016, https://pdfs.semanticscholar.org/338f/88429f3868c706f9da5 6abdf0ba0b10a7e68.pdf?\_ga=2.88902040.2086095349.1621 509185-2119530004.1620912626 SUTRISNO. 财务管理理论,概念和应用。日惹埃科尼西亚, 2012. **CHARLES** 投资原则和概念。第12版。约翰·威利父子公司新加坡, 2014. [22] LEWELLEN W. G., LEASE R. 和 C. **SCHLARBAUM** G. 个人投资者的投资策略和行为模式。商业杂志, 1977. 50(3): 296-333. https://www.jstor.org/stable/2352539?seq=1 [23] JANOR H., YAKOB R., HASHIM N. A., 和 CHE WEL C. Α. 马来西亚和英国的金融知识和投资决策:比较分析。马 来西亚社会与空间杂志, 2016. 106-118. https://ejournal.ukm.my/gmjss/article/view/17739

- [24] CHAVALI K., 和 MOHANRAJ M.P. 人口变量和风险承受力对投资决策的影响:一项实证分析。国际经济与金融问题杂志, 2016, 6(1): 169-175. <a href="https://www.econjournals.com/index.php/ijefi/article/view/1571">https://www.econjournals.com/index.php/ijefi/article/view/1571</a>
- [25] TILSON W. 将行为金融应用于价值投资。Ť 2合伙人有限责任公司有限责任公司,丹佛, 2005. https://licz9g2sdfe31jz0lglwdu48-wpengine.netdna-ssl.com/wp-content/uploads/2012/07/BehavioralFinance-Tilson.pdf
- [26] NOFSINGER J., 和 SIAS R. 机构和个人投资者的羊群交易和反馈交易。金融杂志, 1999, 54: 2263–2295. <a href="https://doi.org/10.1111/0022-1082.00188">https://doi.org/10.1111/0022-1082.00188</a>
- [27]
   JAIN
   D.,
   和
   MANDODT
   E.

   人口因素对拉贾斯坦邦投资者的影响。艺术,科学与商业杂志,
   2012,
   3(2):
   81-92.

   http://www.ijlemr.com/papers/volume2-issue12/19
- IJLEMR-22575.pdf [28] BASHIR T., SAFIA F., IRUM S., WAQAS A., 和 GHULLAM J.

人口统计学和人格特质对自信心水平的影响:过度自信的决定因素(来自员工和学生的证据)。国际科研组织工商管理杂志, 2013, 10(1): 58-67.

http://www.iosrjournals.org/iosr-jbm/papers/Vol10-issue1/G01015867.pdf

- [29] ODEAN T. 投资者交易太多吗?美国经济学评论, 1999, 89(5): 1279-1298. https://www.aeaweb.org/articles?id=10.1257/aer.89.5.1279
- [30] AIGBOVO O., 和 ILABOYA O.J. 行为偏向是否会影响个人投资决策。管理科学评论, 2019, 10(1): 68-89.
- [31] BARBERIS N., 和 THALER R. 行为财务调查。国家经济研究局,剑桥,2003. <a href="https://www.nber.org/system/files/working\_papers/w9222/w">https://www.nber.org/system/files/working\_papers/w9222/w</a> 9222.pdf
- [32] RASHEED M.H., RAFIQUE A., ZAHID T., 和AKHTAR M.W. 影响巴基斯坦投资者决策的因素。行为金融学评论, 2017, 10(1): 70-87. <a href="https://doi.org/10.1108/RBF-05-2016-0028">https://doi.org/10.1108/RBF-05-2016-0028</a>
- [33] KHAN A.Q, 和 SANA I. 针对外国机构投资者的投资对印度资本市场的影响,测试有效市场假说的半强形式。国际贸易,经济与金融杂志, 2010, 1(4): 373-379. <a href="http://www.ijtef.org/papers/66-F490.pdf">http://www.ijtef.org/papers/66-F490.pdf</a>
- [34] ANBAR A., 和 MELEK E. 确定个人财务风险承受能力与人口特征之间关系的实证研究。年龄学术评论, 2010, 10(2): 503–522. <a href="https://papers.ssrn.com/sol3/papers.cfm?abstract\_id=173223">https://papers.ssrn.com/sol3/papers.cfm?abstract\_id=173223</a>
- [35] ANGGIRANI N. 风险承受能力,过度自信和财务素养对泗水社区投资决策的影响。研究所佩尔巴纳斯泗水,泗水,2017.

http://eprints.perbanas.ac.id/2841/

 [36]
 PUSPITASARI
 D.A.
 2018.

 金融素养,过度自信和风险承受能力对资本市场产品投资决策的影响。茂物农业研究所大学,
 2018.

 https://repository.ipb.ac.id/handle/123456789/94565

[37] HAIR J.F., RINGLE C.M., 和 SARSTEDT M. 偏最小二乘结构方程建模:确实是"银弹"。营销理论与 2011, 139-152. 19(2): https://doi.org/10.2753/MTP1069-6679190202 [38] **RAMZAN** S., 和 **KHAN** M. I. 使用潜在变量回归方法进行多重共线性的降维和补救。 世界应用科学杂志, 2010, 8(4): 404-410. https://www.idosi.org/wasj/wasj8(4)10/3.pdf [39] **GHOZALI** I., 和 **HENGKY** 偏最小二乘:使用智能偏最小二乘3.0第二版程序的概念 , 技术和应用。三宝垄迪波尼哥罗大学, 2014. LAKSHMI J., 和 MINIMOL M. 过度自信对投资决策的影响:一种行为金融方法。夹板 国际专业杂志, 2016, 3(2): https://www.proquest.com/openview/021f5e75fea564cb8129 90ee2ecc28a6/1?pq-origsite=gscholar&cbl=2044944 [41] TREHAN В., 和 SINHA A. K. 投资者之间过度自信偏好的存在及其对投资决策的影响 研究。亚太期刊, 特刊: 2016, https://www.elkjournals.com/microadmin/UploadFolder/856 5A%20STUDY%20OF%20EXISTENCE%20OF%20OVER CONFIDENCE%20BIASES%20AMONG%20INVESTORS %20AND%20ITS%20IMPACT%20ON%20INVESTMENT %20DECISION.pdf **TOMA** F.-M. 罗马尼亚投资者布加勒斯特证券交易所投资决策的行为 偏向。普罗迪亚经济与金融, 2015, 32: 200-207. https://www.sciencedirect.com/science/article/pii/S22125671 15013830 BAKAR S., 和 ΥI A.N.C. 心理因素对马来西亚股票市场投资者决策的影响:以巴 生谷和彭亨州为例。普罗迪亚经济与金融, 2016, 35, 319-328. https://www.sciencedirect.com/science/article/pii/S22125671 1600040X [44] ULLAH I., ULLAH A. 和 REHMAN N. U. 的影响对投资决策的过度自信和乐观。国际情报杂志, 2017. 231-243. 9(2): https://www.proquest.com/openview/75c86b4b78219163772 32a6e72eb1c58/1.pdf?pq-origsite=gscholar&cbl=2032142 **SINA** 财务效率和财务满意度:在差异方面性别。新闻杂志, 2014, 12(2): 173-184. https://doi.org/10.28932/jmm.v12i2.164.

**VIJAYA** 

G.,

羊群效应中的历史主义行为者对住宅物业投资决策的影

2015,

http://publication.petra.ac.id/index.php/manajemen-

6(12):

和

3(2):

**RAO** 

NJO

印度零售股票投资者行为模式的实证分析。国际多学科

M., 行为金融学的当代发展。国际经济与金融问题杂志, 7(1): https://www.econjournals.com/index.php/ijefi/article/view/3

2016,

https://core.ac.uk/download/pdf/234696209.pdf

**VIRIGINENI** 

**STEPHANIE** 

keuangan/article/view/3576

研究杂志,

[47]

809 [48]

响。芬斯塔,

E.

B.

29-32.

137-140.

- [49] **FANNY** T. 过度自信,代表性偏差和风险承受能力对雅加达社区投 资决策的影响。论文管理系。雅加达塔鲁玛纳加拉大学 经济学院, 2020.
- [50] **DEWI** W., 和 **IRAMANI** R. Α. 对经济讲师投资决策中的遗憾,风险容忍度,过度自信 和风险感知的经验研究。商业与银行杂志, 2014, 4(1): 55-66. http://dx.doi.org/10.14414/jbb.v4i1.293