Heuristic. Psychological Aspects of Decision-Making on Capital Market

Magdalena Mikołajek-Gocejna*

Abstract: Heuristics are efficient cognitive processes that ignore part of information. In classical view, heuristic decisions save effort, but imply greater errors than “rational” decisions, defined by logic and statistical model. It clearly emerges that in real life people do not always make rational decisions based on established preferences and complete information. In many ways their behavior thus contradicts the homo economicus model. Much of the behaviour observed is caused through people trying to cope with the complexity of the world around them by approximating, because collating and evaluating all the factors of relevance to a decision overtaxes their mental processing capacity. These psychologically driven inadequacies also occur with investment decisions. Heuristics are simply a more effective way of evaluating choices in the rich and changing decision making environment investors must face. The aim of this paper is to review the impact of heuristics bias decision-making on capital market.

Keywords: market efficiency, heuristics, homo oeconomicus, motivovational and recognition biases

Introduction

The classical finance assumes that capital markets are efficient, investor are rational and it is not possible to outperform the market over the long term. Rational man is assumed to be economical, knowledgeable, and skillful in calculating the probabilities of each alternative, and then to choose the best alternative that maximizes his utility for the lowest cost (Simon, 1995). Classical finance has a cornerstone – the Efficient Market Hypothesis (EMH) which assumes that prices of stock and other financial instruments are valued correctly and they always reflect all the information available (Sharpe, 1995, pp. 105–107). So, the capital market is efficient information-wise if it guarantees all market participants immediate access to information (Gabryś, 2006, p. 477). The market efficiency theory has been developed by Eugene Fama, who in his first papers on the subject defined it as a market that quickly and unequivocally adjusts to new information (Fama, p. 1970). The contemporary and more mature definition states that:

An ‘efficient’ market is defined as a market where there are large numbers of rational, profit-maximizers actively competing, with each trying to predict future market values of individual securities, and where important current information is almost freely available to

* prof. nadzw. dr hab. Magdalena Mikołajek-Gocejna, Szkoła Główna Handlowa w Warszawie, Instytut Zarządzania Wartością, ul. Madalińskiego 31/33, 02-544 Warszawa, e-mail: magdalena.mikgoc@gmail.com.
all participants. In an efficient market, competition among the many intelligent participants leads to a situation where, at any point in time, actual prices of individual securities already reflect the effects of information based both on events that have already occurred and on events which, as of now, the market expects to take place in the future (Fama, 1995, p. 76).

The efficient market hypothesis exists in three variants that assume different types of information, which are reflected in securities prices (Fama, p. 1991):

1. Weak form efficiency (WFE) assumes that prices reflect all past information. WFE implies that it is impossible to forecast securities prices drawing from historical prices, i.e. from technical analysis which uses charts of past stock quotes (Peters, 1999, p. 19). This implies that investors who use historical data cannot simply beat or predict the market.

2. Semi-strong form efficiency (SSFE) assumes that securities prices reflect all publicly available information, i.e. the information that can be read out from time series and the information included in current or periodical reports, companies’ financial reports and in other sources that can affect stock prices. This implies that investors who use historical data and publicly released information cannot achieve superior return.1

3. Strong form efficiency (SFE) assumes that the market is efficient when the price of a security reflects all the publicly available information, all the publicly unavailable information, and confidential information. Thus, the future developments in prices cannot be forecasted even if one holds information unavailable to others. In such a situation, all analyses of information are pointless. This implies that investors who trade based on past, public and insider information will be not able to achieve above-average risk adjusted return (Reilly, Brown, 2011).

1 The most interesting work in the field of semi-strong efficiency is concerned with: 1. The market’s reaction to a new offering. This has been verified by Kraus and Stoll (1972); the results revealed that the price quickly returns to the previous value which confirms the market’s efficiency. 2. The effect of the announcement of merger, which has been studied by Patell and Wolfson (1984). The price adjustment followed the announcement by a dozen of minutes, which confirmed semi-strong efficiency. 3. The impact on the rate of dividend on the possibility to project returns, which has been studied by Fama and French (1988) and Campbell and Shiller (1988). They have demonstrated that 40% of future rates volatility can be accounted for thanks to observations of the initial level of the indicator. 4. Malkiel (2003) has linked the effect of dividend yield with the level of interest rates and with the adjustment of securities valuation to economic circumstance; moreover he observed that starting from the mid 80s the effect of dividend yield started to die out. 5. The effect of the split on a security’s price linked to an increases dividend has been studied by Fama, French, Jensen and Roll (1969). The results of their study confirmed the semi-strong efficiency hypothesis; 6. The influence of the P/E ratio on the rate of return has been analysed by Basu (1977), who has proven that shares with a lower P/E have a higher rate of return than shares with a high P/E; Banz (1981) has contributed an observation that the return is even higher in the case of companies with lower capitalisation. Both authors were inclined to refute the SSFE hypothesis. 7. Kester (1990) in his research records a small-size firm effect; he argues that they offer more opportunities for achieving abnormal returns than in the case of firms with high capitalisation. 8. The announcement of unexpected results has been analysed by Ball (1978). In his analysis, he obtained a rate of return significantly different from the average, which constituted an argument against efficiency. The author, however, attributed the lack of efficiency to CAPM which he used to compare risk. Watts (1978) and Rendleman, Jones and Latane (1982) have received similar results. 9. Strategies based on the effects of P/E, capitalisation and P/BV have been verified in the context of the Polish capital market from September 1994 to September 2000 (Czekaj et al., 2001). The study argued in favour of the efficiency and the increase of return was deemed statistically insignificant.
Efficient market hypothesis highlight the fact that absolute rationality of the capital market characterized by the fact that all investors are rational it is a statement of fact and must generally accepted.

But if we compared the model homo oeconomicus with the results of psychological experiments, it is clearly emerges that in real life people do not always make rational decisions based on complete information. They are not rational utility-optymalization machines. In many ways their behavior thus contradicts the rational man model.

The same applies to investors. Behavioral finance provides a different perspective to understand decision-making process, suggesting that investment decisions is influenced in large portion by psychological and emotional factors, such as: fear, panic, anxiety, envy, euphoria, greed, satisfaction, ambition or vanity. Behavioral finance holds that investors tend to fall into predictable patterns of critical behavior, they made the same mistakes frequently. Growing complexity and uncertainty of decision-making process has caused that investor to greater extend rely on heuristics. This could lead to bias or less-than-optimal decisions. But simple heuristics can be more accurate than complex procedures is one of the major discoveries of the last decades (Gigerenzer, Hertwig, Pachur, 2011).

1. Heuristics and Prospect Theory

The term heuristic is of Greek origin, meaning “serving to find out or discover.” The mathematician George Polya distinguished heuristics from analytic methods; for instance, heuristics are indispensable for finding a proof, whereas analysis is required to check a proof’s validity. In psychology, heuristics can be defined as “a mental shortcut that allow people to solve problems and make quick judgments” or “a very simple procedure that helps find adequate, though often imperfect, answer to difficult questions” (Forbes, Hudson, Skerratt, Soufian, 2015). Similarly, but in a more positive way, Gigerenzer and Gaissmaier (p. 454) offered the following definition “A heuristic is a strategy that ignores part of the information, which the goal of making decisions more quickly, frugally and/or accurately than more complex methods. Authors argue that the reason why investors make such intensive use of simple rules for financial decision-making is simply, because they work. Fast and frugal reasoning, which focuses on a few cue variables, happens for two main reasons (Forbes, Hudson, Skerratt, Soufian, 2015):

4. People are boundedly rational, they want to make the right choice, but making some choice is even more important
5. Many decisions are considered under condition of uncertainty not risk, and we are often unable to attach possibilities to specific situations.

However, heuristics will probably not apply when attempting to make decisions in dynamic and complex environment like the capital market. In such circumstances they can lead to cognitive biases in decision making (Tversky, Kahneman, 1974). Authors state that “cognitive bias is a common tendency to acquire and process information by filtering it
through one’s own likes, dislikes, and experiences regarding the reality.” Such bias can lead to a perceptual distortion, inaccurate judgment, or illogical interpretation of financial information. Therefore, under the risk, the decisions are usually made based on person’s belief and preference instead of facts.

In 1979, psychologists Daniel Kahneman and Amos Tversky put forward a hypothesis describing real-life behaviour of people under risk, i.e. the prospect theory, which took into account empirical data concerning decision-making under uncertainty (Tversky, Kahneman 1982, pp. 163–178).

The first formal attempt at decision-making under risk, however, was made much earlier by Blaise Pascal, who recommended to maximise expected value, defined as the sum of products of the probabilities of occurrence of subsequent events multiplied by the value assigned to subsequent events (Zielonka, 2011). In 1783, Daniel Bernoulli proposed a new model of decision-making under risk where he replaced expected value with expected utility. He assumed that the curve of utility will be concave, because then the increase of satisfaction from greater wealth gets smaller and smaller (Zielonka, 2011). Bernoulli did not define a function for losses, which Kahneman and Tversky made up for in their prospect theory. It is the most important theory regarding the motivations of investors and it comprises of two parts: the first one concerns utility, the other – probability.

Kahneman and Tversky preferred the term “value” to “utility”. They meticulously analysed the shape of the functions of potential losses and potential gains. The value function in losses is concave and relatively steep, while the value function in gains is convex and less steep. These features are very important in the context of attitudes in face of risk. If we lose $500, we will feel the loss more strongly than we feel the joy from gaining $500.

Moreover, the prospect theory assumes that investors’ preferences and expectations will also depend on how the problem is formulated. If the reference point is chosen in such a way that the result of the decision will be perceived as gain, the investor will be risk averse. Otherwise they will be risk seeking (Zielonka, 2003).

The first part of the prospect theory also implies that the subjective and perceptible value of an investor’s wealth is related to changes both in gains, and in losses. It means that subsequent gains bring smaller increase in value, so do losses.

The second part of the theory concerns the way in which investors estimate probability of particular events. Instead of the probability function, Kahneman and Tversky introduced the weighting function, because they argued investors tend to underestimate medium and large probabilities, but they overestimate low probabilities (Zielonka, 2003).

1.1. Motivational biases

Among investors’ motivational biases the following can be also enumerated:
1. Mental accounting (Zielonka, 2011), i.e. irrational dividing of different types of investment and considering potential gains or losses separately for each. Investors are more prone to consume the return on stock if it comes from a dividend rather than if it results from a price increase on the capital market. It means investors treat differently their profits from dividends and from price growth.

2. Endowment effect, i.e. a different perception of securities an investor already owns. Such assets are usually ascribed more value because investors treat them with preference (Samuelson, Zeckhauser, 1988).

3. Attachment effect and status quo effect are very similar biases in which the will to keep the existing state of affairs prevails. It turns out that if an investor holds shares of a certain company for a long time or has an emotional bond with it, they will be averse to sell the shares, sometimes regardless of circumstances.

4. Disposition effect, i.e. a tendency to sell too soon shares whose price has increased and to keep assets whose value has dropped. T. Odean and B. Barber (1999) analysed ca. 10 thousand individual accounts and concluded that individual investors are prone to this bias – they clearly tend to realise their earnings and they are averse to close their position in losing stock, although it is irrational from the point of view of taxation.

Table 1

Table Summary of articles on the disposition effect

<table>
<thead>
<tr>
<th>Article</th>
<th>Dataset</th>
<th>Main Finding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barber et al. (2007)</td>
<td>Taiwan Stock Exchange 1995–1999</td>
<td>The disposition effect is present for individual and institutional investors (mutual funds, corporations, dealers, and foreigners). Individuals have the strongest disposition effect</td>
</tr>
<tr>
<td>Brown et al. (2006)</td>
<td>Australian Stock Exchange 1995–2000</td>
<td>The disposition effect is present for individual and institutional investors in the Australian IPO market, though traders making large trades are less prone to the disposition effect</td>
</tr>
<tr>
<td>Dhar and Zhu (2006)</td>
<td>US Discount Broker 1991–1996</td>
<td>Among individual investors, the disposition effect is weaker among the wealthy and those employed as professionals</td>
</tr>
<tr>
<td>Frazzini (2006)</td>
<td>Thomson Financial CDA/Spectrum Mutual Fund</td>
<td>Mutual funds sell equities held for a gain at a higher rate than those held for a loss, and this tendency is stronger following years of poor fund performance</td>
</tr>
</tbody>
</table>
Heath et al. (1999) Employee Stock Options at Seven US Companies 1985–1994 Employee stock options are more likely to be exercised when the stock is trading above its prior-year high.


Weber and Camerer (1998) Experimental Market Subjects participating in an experimental stock market are more likely to sell winners rather than losers. The disposition effect is mitigated when investors are forced to sell all positions and then repurchase.

Source: own.

5. Myopic loss aversion describes a situation when an investor feel uncomfortable with temporary decline in stock prices (Zielonka, 2011), even if in the case of long-term investment. As a result, investors prefer low-risk financial instruments, for example treasury bonds, even if in the long-term they yield much smaller return than more risky instruments.

6. Cognitive dissonance is a state of psychological discomfort which appears when an individual has to deal with two contradictory cognitive elements, for example ideas or opinions (Festinger, 1957). The dissonance causes motivational stress and triggers action aimed at reducing or mitigating the stress. When traders on the capital market choose a company, they believe their investment will be successful. If the company fails, they try to focus only on positive information about the company, in order to reduce the tension caused by the dissonance between the choice the investor has made and unsatisfactory return from investment.

1.2. Cognitive biases

Investors’ decisions are not only burdened with motivational biases, but also with cognitive biases, i.e. the tendency to quickly form opinions that are supposed to solve complex problems. In the perspective of this book, the most important cognitive biases are (Zielonka, 2003, 2011):

1. Overconfidence – investors hold an unfounded opinion that their judgment is correct and they tend to overestimate their abilities. In guise of empirical evidence, the study carried out by B. Barber and T. Odean can be evoked. Following an analysis of individual investors’ accounts, they concluded that the more confident investors feel about their know-how and skill, the more they trade (Barber, Odean, 2000). A study conducted on the Warsaw Stock Exchange – analysts were asked to forecast the WIG index for the six following months – confirmed that analysts are overconfident as to their competence, because only one third of forecasts were accurate (Zaleśkiewicz,
Several papers have developed theoretical models based on the observation that investors are overconfident (Benos, 1998; Caballe, Sakovics, 2003; Daniel, Hirshleifer, Subrahmanyam, 1998; Gervais, Odean, 2001; Hong, Scheinkman, Xiong, 2006; Kyle, Wang, 1997; Odean, 1998; Peng, Xiong, 2006; Scheinkman, Xiong, 2003; Wang, 2001). Generally, these models assume investors suffer from the miscalibration type of overconfidence. For example, one can extend the classic models of Kyle (1985), Grossman and Stiglitz (1980), or Diamond and Varecchia (1981) by assuming some investors are miscalibrated (or overconfident) about the precision of their information (see Odean, 1999). In these three settings, the overconfidence models generally predict that investors will trade too much and to their detriment.

2. Illusion of control, i.e. an investor’s subjective belief that they are able to control the course of events, which in fact, happen independently of the investor. P. Presson and V. Benazzi (1996) defined factors that determine the feeling of control on the financial market. Firstly, the choice – if an investor chooses their stock or investment portfolio on their own, they will strengthen the belief they can influence the course of events, in contrast to a situation when he would be randomly ascribed some stock. Secondly, if an investor makes a good decision a couple of times in a row, he usually feels he is able to control the course of events, even if the decision just coincidentally happened to be right. The authors dub such phenomenon an outcome sequence. Another factor strengthening the illusion of control is familiarity; stock market investments are popular, so even an unseasoned investor can be under the impression that he is able to make good investment decisions. The amount of incoming information is also important; it does not always improve the investor’s knowledge but it definitely increases the illusion of control. The investor’s involvement in managing the investment account also contributes to this illusion. The greater the independence, the stronger the illusion of control over investment.

3. Hindsight bias. Predicting the tendencies of financial markets is extremely difficult – if not impossible – since contemporary market mechanisms are very complex. However, when an event which was hardly probable occurs, investors claim that it had been possible to predict. Such bias makes it harder for investors to see the mistakes they made in their forecasts.

4. Excessive optimism, which occurs when investors believe the course of events will be favourable to them. It usually happens in the time of bull market. Moreover, excessive optimism can make traders overestimate the probability of occurrence of rare desired events and underestimate the probability of undesired events, which in consequence can lead do excessively risky behaviour.

5. Anchoring effect means that stock price can depend on a certain initial value, which is used as a reference point. On financial markets, where there are no absolute values and we constantly need to refer to relative values, anchoring plays an important role. As an illustration we can evoke the tendency to treat as a point of reference the WIG
20000 index from the period of bear market on the Warsaw Stock Exchange in the early 1990s. Anchoring effect can be often observed upon the first public issue of shares. At such a moment, the valuation of a company is to a certain extent subjective, but if a high stock price is anchored, traders will perceive each opportunity to buy shares at a lower price as an attractive investment. On the Polish capital market, S. Buczek and M. Pietrzak (2004: 14) studied anchoring effect in a group of stock analysts from 1999 through 2003. The authors analysed recommendations concerning IT companies. In this period, stock quotes in the new technologies industry fluctuated considerably. Buczek and Pietrzak’s analysis revealed that analysts adjusted the valuation of particular companies to their market value which worked as an anchor.

6. Availability heuristic is a mental shortcut which makes investors have more confidence in companies which are familiar to them, i.e. in things they have seen or heard about before. E. Stephen illustrated how availability heuristic worked in a study of German investors (Stephan, 1999, quoted in Zielonka, 2011, p. 61). He drafted a list of companies with easily recognizable names and a list of little known companies. Next, all the names were read out to traders and for each name the researcher informed whether the firm generated profits or losses. It turned out that if profits were ascribed to well-known companies and the losses to littleknown ones, investors believed that the majority yielded profits; they memorised financial results of popular companies better and the names they were familiar, which determined the final impression.

7. Representativeness heuristic on the capital market denotes, generally speaking, investors’ tendency to foresee a continuation of existing trends, if they are able to find plausible cause and effect for such an event (for example they might forecast a rising trend for a company that announces positive financial results). If investors are unable to find a simple explanation, they treat a given series of events as a result of chance to a large degree and they are not inclined to make non-regressive predictions (Andreasen, 1987).

8. Investor sentiment, or over-reaction and under-reaction to information. Overreaction occurs when traders react excessively to a series of information about a given company, for example to a series of positive pieces of information. If an investor is observing a company which generates increasingly high income and operates in an interesting market segment, it induces the investor to forecast a rising trend, which can push the stock price up. Only in later years the quotes will start to decrease and reach a level adequate to the data announced previously. An analogous phenomenon can occur in the case of a company which announces bad financial results. Underreaction consists in an insufficient reaction which mainly follows an announcement of a surprising piece of fundamental information, such as a sudden decrease in a company’s profits after a series of increases. In literature, various definitions and classifications of investor sentiment exist 8. For instance, M. Baker and J. Wurgler (2007) revealed through their comparison of stock quotes that changes in investors’
sentiment affect considerably, noticeably and repeatedly the shares of a given company and the entire capital market. This effect was particularly pronounced in the case of companies whose stock quotes were unstable and which were difficult to valuate in an objective manner. There exist several theoretical models which demonstrate the influence investor sentiment has on stock prices and the valuation of assets (Barberis et al., 1998; Welch, Qiu, 2004; Shefrin, 2007; Baker, Wurgler, 2007; Daniel et al., 2001) but there are few studies which attempt to measure investor sentiment (Lee, Shleifer, Thaler, 1998; Neal, Wheatley, 1998; Brown, Cliff, 2004). Among the latter, two types of measurement can be distinguished: direct and indirect. Direct measuring uses surveys, and indirect measuring involves widely available information and its correlation with investor sentiment. Other papers focus on the influence of investor sentiment on stock returns (Solt, Statman, 1989; Brown, Cliff 2005; Baker, Wurgler, 2006). Lee, Jiang and Indro’s research (2002) suggest that investor sentiment correlated with changes in stock quotes automatically translate into return on investment. What is more, a positive change in sentiment leads investors to evaluate the market as more stable and to expect a greater return. A negative change makes the market seem unstable and results and in smaller expectations of earnings. The issue of investor sentiment is of major importance in contemporary economy, since – as Zouaoui, Nouyrigat and Beer’s study reveals (2012) – the attitude of investors can help to forecast crises. Although researchers often point out to change in (Barberis et al., 1998; Welch, Qiu, 2004; Shefrin, 2007; Baker, Wurgler, 2007; Daniel et al., 2001). sentiment as determining factor in capital market crises (De Long, Shleifer, 1991; Shiller, 2000), it is rarely analysed.

9. Affect heuristic is a mental shortcut in which current emotions guide the judgment of events. It may for example lead to investors’ believing that stock of reputable, well-known companies constitute a good investment and can yield a high risk-free return. It seems that the affect heuristic can also be present when traders forecast positive results for companies who initiate social responsibility actions.

The motivational biases and cognitive tendencies of investors described above can help to explain investors’ behaviour. We should also assume that there exists a relationship between the psychological mindset of investors and the behaviour of financial markets. Moreover, biological factors, next to fundamental factors, play a significant role in forming traders’ expectations and, as a consequence, stock prices on the capital market.

2. Heuristic and stock buying decisions

Individual investor purchase stock directly for themselves to benefit from the growth of stock market or from dividends. It is certainly that it is not possible to separate investors’ personality and the decision they made. A large body of empirical research indicates that real individual investors behave differently from investors in these models. Many individual
investors hold under-diversified portfolios. Many apparently uninformed investors trade actively, speculatively, and to their detriment. Real investors are influenced by where they live and work. These behaviors lead to an investment portfolio far from the market portfolio proscribed by the CAPM and arguably expose investors to unnecessarily high levels of idiosyncratic risk. Thus, it cannot be ignored the importance of understanding the individual behavior of investors. Investment decision on capital market, consist of three demansions: buy, sell and hold, do not focus strictly on financial theory. Buying decision are important for two reasons. Barber and Odean (Barber, Odean, 2013) claimed that investors are net buyers

Rely on heuristics and biases
in decision-making process

Motivational biases
• Mental accounting
• Endowment effect
• Attachment effect
• Status quo effect
• Disposition effect
• Myopic loss aversion
• Cognitive dissonance

Cognitive biases
• Overconfidence
• Illusion of control
• Hindsight bias
• Excessive optimism
• Anchoring effect
• Availability effect
• Representativeness heuristic
• Investor sentiment
• Affect heuristic

On individual investor level

Affect individual decision-making process
• Underdifferential portfolio
• Excessive trading
• Reduce return
• Winner-looser effect
• Holding loosing stock

Affect portfolio return
• Mispricing
• Overpricing
• Price volatility

On the market level

• Herding effect
• Stock mispricing
• Bubble bursts
• Reduction of market efficiency

Figure 1. Rely on heuristic and biases and its consequences
Source: own.
Heuristic. Psychological Aspects of Decision-Making on Capital Market

and measuring stock buying decisions can provide a more accurate response compared to measuring a general decision-making dimension. Authors also stated, that in a long time individual buying decision can move stock prices away from the fundamental value, so they can be influential on the market. We must remember that during decision-making process investors face the pressure of time, risk or uncertainty together with the complexity of the investment environment. Such situation leads to rely on mentioned above heuristics, which can cause a less-than-optimal and costly buying decisions, that will negatively effect the portfolio return (Baber, Odean, 2013). If we additional assume the herding behavior of individual investors, that their decisions create mispricing in stocks (Reitz, 2005) and reducing market efficiency (Shleifer, 2000), which can lead to market bubble.

**Conclusions**

The presence of regularly occurring anomalies in conventional economic theory was a big contributor to the formation of behavioural finance. These so-called anomalies, and their continued existence, directly violate modern financial and economic theories, which assume rational and logical behaviour. Normal humans are imperfect and information requirements are for some financial models egregious. Complexity of capital market causes that people use heuristics. They may help to explain why the market sometimes acts in an irrational manner, which is opposite to the model of perfectly informed markets. In such circumstances heuristics can lead to cognitive biases in decision making, where “cognitive bias is a common tendency to acquire and process information by filtering it through one’s own likes, dislikes, and experiences regarding the reality.” Such bias can lead to a perceptual distortion, inaccurate judgment, or illogical interpretation of financial information and mispricing on both individual and capital market level.

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Gigerenzer and Gaissmaier, Heuristic decision-making.
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HEURYSTYKI. PSYCHOLOGICZNE ASPEKTY PODEJMOWANIA DECyzJI NA RYNKU KAPITAŁOWYM

Streszczenie: Heurystyki to efektywne procesy poznawcze ignorujące część informacji. W klasycznym wyobrażeniu, decyzje bazujące na heurystykach należą do szybkich i oszczędnych decyzji, ale mogą implikować poważne odchylenia od decyzji „racjonalnych” definiowanych przez logikę i model statystyczny. Jest oczywiste, że w realnym świecie, ludzie nie zawsze podejmują racjonalne decyzje oparte na ustalonych preferencjach i pełnym dostępie do informacji. Ich zachowanie jest sprzeczne z klasycznym założeniem homo-economicus Wiele ludzkich zachowań podyktowanych jest próbami radzenia sobie ze złożonością świata, ponieważ zestawienie i ocena wszystkich czynników istotnych dla podjęcia decyzji przewyższa zdolności przetwarzania ludzkiego umysłu, szczególnie jeżeli chodzi o decyzje podejmowane na rynku kapitałowym. Heurystyki są po prostu sposobem oceny wyborów w różnorodnych
i zmieniających się otoczeniach decyzyjnych. Celem pracy jest dokonanie przeglądu wpływu heurystyk na decyzje podejmowane na rynku kapitałowym, głównie decyzje zakupu akcji.

Słowa kluczowe: efektywność rynku, heurystyka, homo-oeconomicus, motywacyjne i poznawcze skłonności inwestorów

Citation