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Introduction

The accident statistics of the Deutschen Hängegleiterverband (DHV) lists 215 accidents of German paragliding pilots in ~~the year~~ 2015 (Slezak, 2017). ~~The majority~~ Most of ~~this~~ these accidents ~~are happening~~ during launch and take off (Slezak, 2017).

~~In order to find out~~ determine why so many accidents happen during launch and take off, it is necessary to ~~answer the question~~ learn which decisions ~~do~~ paragliding pilots make in this period of ~~there~~ their flight and how ~~do the paragliding pilots come to~~ they arrive at their decisions. Do they make purely rational decisions based on facts or intuitive decisions based on so-called heuristics?

Heuristics are an important element of the decision-making process. They ~~do~~ a good job in situations ~~which~~ that require fast decisions (Croskerry, 2009; Dobelli, 2011; Gigerenzer & Gaissmeier, 2011), e.g. in emergency situations. On the other hand, decisions based on heuristics can also be problematic ~~as well~~. Such decisions can be systematically biased and differ a lot from decisions ~~which were~~ that are made rationally, based on facts only (Tversky & Kahneman, 1974). ~~This~~ These biased decisions can become a security risk, especially in meaningful and dangerous situations, like launch situations of paragliding pilots.

The ~~Dual-Process Theory~~ of decision making specifies two ways of making decisions ~~making~~ (Evans, 1984, 1989). Type-1 Processes are often used; they are fast and effective. They run automatically and use associations based on relations in time and similarities (Sloman, 2002), they do not demand a big-large cognitive effort (Kahneman & Frederick, 2002); and they are based on experience

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<https://www.scribbr.com/academic-writing/taboo-words/>.

Also try to avoid colloquial language.

Commented [V2]: Please check your style guide regarding using & in in-text citations, then apply consistently throughout your paper.

Commented [V3]: This is how I find it written in the literature I find.

Commented [V4]: In English, capital letters are usually saved for the names of specific persons, places, and organizations. General terms and the names of models, theories, schools of thought, and so forth are written in lowercase.

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and usually unconscious. About 95% of our decisions are made in this intuitive

~~type-1 process~~ (De Neys, Moyens, & Vansteenwegen, 2010; Croskerry, Singhal, & Mamede, 2013a). Hence decisions made in the ~~type-1 process~~ are not always optimal. It is possible that these decisions are systematically biased (Kahneman 2011, Tversky & Kahneman, 1974). In previous research, the ~~type-1 process~~ ~~type-1 process~~ of decision making was often named heuristic decision making.

~~On the contrary~~ ~~In contrast~~ to ~~type-1 processes~~, ~~type-2 processes~~ are reliable and safe, but they are also slow and demands a lot of ~~many~~ cognitive resources (Kahneman & Frederick, 2002). ~~Type-2 decision making~~ is analytic, controlled, deductive and conscious (Kahneman & Frederick, 2002). The ~~type-2 process is~~ ~~type-2 processes~~ often called rational decision making (Kahneman 2011, Tversky & Kahneman, 1974). ~~type-1- and type-2 processes~~ ~~type-2 processes~~ exist side by side; they can run simultaneously and influence each other (Croskerry, 2009).

~~In~~ ~~The~~ previous literature ~~mentions~~ three models of pilots' decision making ~~are mentioned~~ (Wickens & Flach, 1988; Jensen, 1995; Madhavan & Lacson, 2006). All three models have in common that the ~~type-2 process~~ is the normal ~~case~~ ~~mode~~ of decision making. ~~Heuristics and biases~~ are presumed to be disturbing factors, and not a ~~separate way of making decision making~~, as the ~~dual process~~ ~~theory~~ does.

This study uses ~~an own model~~ of pilot decision making (Fig. 1). It is based on

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~~assumptions by Stanovich's assumptions~~ (2011) concerning the [dual process theory](#) ~~Dual Process Theory~~ and on Croskerry's model (2009) with extensions stated by Croskerry, Singhal and Mamede (2013a). Croskerry (2009) and Croskerry, Singhal ~~and Mamedes~~ model (2013a) derives from [a](#) medical context. It was developed to improve the understanding of medical doctors' decision making in ~~diagnostics~~ [of diagnosing](#) diseases. This better understanding should lead to the elimination of harmful heuristics and biases in the [decision-making](#) process. This model is quite general and can easily [be](#) adjusted to other fields of decision making, ~~as including~~ decisions of paragliding pilots.

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~~One~~ The left side of [the model](#) [shows](#) the cues for [the decision-making](#) process ~~can be seen~~. If these cues contains cues for ~~the~~ intuitive, often unconscious type-1- processing and these cues are ~~percepted~~ [perceived](#), the intuitive [type-1 process](#) ~~Type 1 Process~~ of decision making, displayed in the top of the model, is triggered.

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~~In case~~ If no cues for the [type-1 process](#) ~~Type 1 Process~~ do exist or the cues are not recognised, the analytic ~~t~~ [Type-2](#) ~~P~~ process, displayed in the bottom of the model, starts. ~~Even if the cues for the type-1 process Type 1 Process was were~~ recognised, ~~it~~ [they](#) can be ignored willingly and the decision maker then switches consciously to the rational [type-2 process](#) ~~Type 2 Process~~. Following the analytic [type-2 process](#) ~~Type 2 Process~~ the process ~~continues~~ after recognising further cues with situation assessment and risk assessment, which leads to the decision itself.

The ~~m~~ Model states the possibility to change between the ~~T~~ type-1- and [type-2](#)

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~~process~~Type 2 Process at any time and—several times. This is displayed in the middle of the model, and it is a central assumption of the dual process theory ~~Dual-Process Theory~~ (Stanovich, 2011). The changeover from rational decision making to intuitive decision making is called dysrational override. It is often caused by lack of time or cognitive capacity, but also tiredness, distraction or ~~missing~~lacking motivation for rational decision making (Croskerry, 2009).

The changeover from intuitive ~~T~~type-1 decision making to rational ~~T~~type-2 decision making is called rational override; it is caused by a meta-cognition (Croskerry, 2009). The dual process theory ~~Dual-Process Theory~~ sees the intuitive and rational processes of decision making deliberately as equal, they are closely connected,—run parallel and ~~do~~ permanently interact with each other (Croskerry, 2009).

The research describes ~~a large number of~~many heuristics and biases ~~which~~that appear in the type-1 process ~~Type 1 Process~~ of decision making. Dobelli (2011) estimates their number ~~with~~at more than 100. This study has chosen ten heuristics

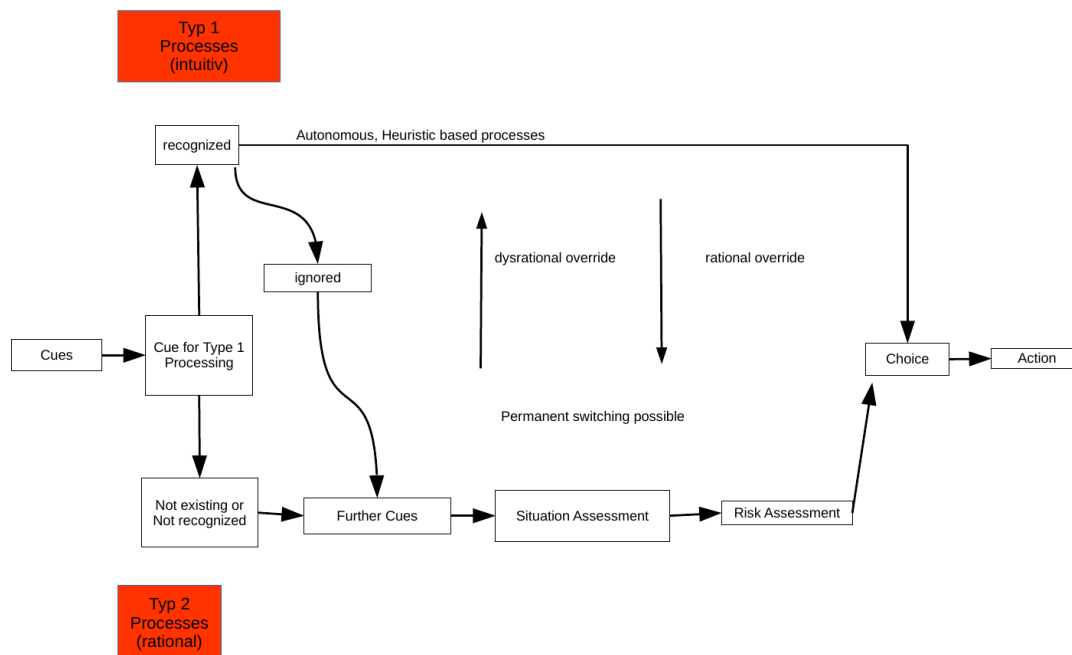
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Figure



1: Model of pilots' decision making based on the ~~D~~ual-~~p~~rocess-~~T~~heory.

from literature, ~~which that could~~ may be relevant for the launch decisions of paragliding pilots. —

The Sunk Cost Fallacy describes the tendency to keep former decisions in mind when making new decisions ~~are made~~ (Arkes & Blumer, 1985; Kahneman, 2011). When, by-for example, one has made a mistaken investment ~~has been made~~, this fact will influence a new decision by ~~trying~~ attempting to keep the consequences of the mistaken investment as small as possible (Arkes & Blumer, 1985). Using a ~~Ability~~ b ~~Bias~~, a pilot ~~is~~ may overestimating his abilities in comparison with other pilots (Dobelli, 2011). Confirmation b ~~Bias~~ describes the tendency to interpret new

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information in a way that confirms one's beliefs and worldview. ~~Not In~~compatible information is often ignored (Dobelli, 2011). ~~Outcome B~~ bias describes the tendency to judge a decision by its former outcome, when a similar decision was made (Dobelli, 2011). ~~However, A~~ good outcome in the past does not mean that the former decision itself was good; the good outcome may ~~only~~ have been good luck ~~only~~. Anchoring is based on ~~an~~ existing, quantitative information (Tversky & Kahneman, 1974; Epley, & Gilovich, 2001). This information, called ~~the~~ anchor, may exist on pure chance, without any ~~meaning for~~ the decision (Ariely, 2008). ~~But~~ ~~However,~~ this information ~~is~~ influencing the decision, without being relevant for the decision; it is the mere existence that matters (Tversky & Kahneman, 1974; Ariely, 2008). Framing means drawing different conclusions from the same information, depending on how that information is presented (Kahneman & Tversky, 1982; Dobelli, 2011). In ~~contrary-contrast~~ to ~~a~~ Anchoring, qualitative information is ~~concerned~~. The majority heuristic ~~ck~~, describes the tendency; ~~to react-conform under-to~~ ~~the~~ influence of the majority (Bohner, Moskowitz, & Chaiken, 1995; Dobelli, 2011). As several experiments showed, people tend to ~~behave~~-conform, even if the majority is ~~obviously mis~~judging the circumstances ~~obviously wrong~~ (e.g. Asch, 1956). ~~The~~ ~~R~~ecognition bias describes the tendency to judge objects based on ~~the fact~~ how well they are known. The better-~~known~~ object is judged as more likely to occur (Dobelli, 2011; Gigerenzer, 2015). ~~The~~ ~~R~~epresentativeness bias describes the tendency to judge objects according ~~on-to~~ their similarity with prototypes. The more similar an object is to the prototype, ~~the more likely~~ the more likely the occurrence of an object is expected (Kahneman & Tversky, 1973; Dobelli, 2011). The availability heuristic

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describes the tendency to overestimate the likelihood of events with greater availability in memory, which can be influenced by how recent the memories are. It is often used when precise and ~~all-complete~~ information is not available (Tversky & Kahneman, 1973; Dobelli, 2011). ~~Information that is easily accessible in mind is used-~~ (Dobelli, 2011).

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The use of heuristics during launch could be influenced by ~~s~~Sensation ~~s~~Seeking and readiness to assume risk. Sensation ~~s~~Seeking is a generalised behaviour disposition, ~~characterised by~~ the craving for new, complex and diversified experiences ~~is characterizing sensation seeking.~~ This is associated with the readiness to take considerable risks (Zuckerman, 2014). Castanier, Scanff ~~u~~and Woodman (2010) say that ~~s~~Sensation ~~s~~Seeking is ~~the cause for~~ the motivation ~~to take a lot for taking many~~ and severe risks; taking ~~high~~ risks can satisfy the need for stimulation. Woodman, Barlow, Bandura, Hill, Kupciw ~~u~~and MacGregor (2013) ~~were able to proof~~proved a close relationship between ~~s~~Sensation ~~s~~Seeking and ~~r~~Risk ~~t~~Taking.

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There is no research concerning decision making of paragliding pilots. In general aviation, ~~few~~ little research concerning pilots' decision making, heuristics and biases exists (Walmsley & Gilbey, 2016). The existing research is hardly applicable to paragliding pilots. ~~Nearly~~ Almost all research deals with flights leading from good weather conditions (visual meteorological conditions) ~~;~~ into bad weather conditions (e.g. rain, clouds) called instrumental meteorological conditions. This

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situation does not occur for paragliding pilots because; ~~it is essential for paragliding pilots to have must~~ landed when clouds ~~or getting close~~. Furthermore, existing research deals with decisions during the flight ~~and but~~ not with launch decisions. Hence the existing research can only provide an informative basis for possibly relevant heuristics and biases pilots used by pilots.

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This study intends to find out, if ~~paragliding pilots use~~ Type-1 Processes of decision making for their launch decisions and ~~in which~~ to what degree these type-1 processes ~~Type-1 Processes~~ have an impact on the launch decision. Further, the study investigates the influence of ~~s~~ Sensation Seeking and ~~r~~ Risk Taking on the launch decision ~~will be investigated~~. The study is exploratory because there is no previous research on this topic. Hence, no exact hypotheses are established.

Preliminary Study

~~It is the aim of~~ The preliminary study aims to identify the heuristics ~~used by~~ paragliding pilots use, so that they can be analysed more closely in the main study. Further, the preliminary study ~~is used to test~~ the scales for Risk Taking and Sensation Seeking for their suitability.

Method

Recruitment. The subjects for the preliminary study were recruited at the official paragliding launch area at Brauneck (Lenggries, Oberbayern) in July ~~and~~ August 2017.

Participants. ~~34~~ Thirty-four paragliding pilots participated in the interviews. They ranged in age from 21 to 84 years (mean ~~43,~~ 43.82 years; SD = ~~15,~~ 15.89)

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and their number of flights in the last year ranged between 17 and 700 (mean 100.76; SD = 123.89). Eight pilots were females; 26 were males. All subjects held a German A-Licence or the Austrian Paragleiterschein, hence they are all able to make launch decisions on their own.

Measures. The preliminary study was carried out as a structured interview (Mayring, 2010). The use of heuristics was operationalised as suggested by Bellur and Sundar (2014), using self-report and description of scenarios. Standardised questions relating to the ~~probably relevant~~ heuristics that are most likely relevant for launch decisions were asked. An example of questions for the majority heuristic is “did it ever occur to you, that you were thinking prior to a launch in critical weather conditions; ~~the that~~ other pilots are launching as well?”²⁴

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The ~~r~~Risk-Taking Inventory (RTI) (~~RTI~~; Woodman, Barlow, Bandura, Hill, Kupciw, & MacGregor, 2013) was used to collect the data concerning risk taking. The RTI contains seven items, ~~the items~~ which are rated on a 5-point Likert-type scale (1 = never; 5 = always). The items were translated into German. Cronbach's α for the scale in the sample is $\alpha = 0.77$.

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Sensation ~~s~~Seeking was assessed with nine self-phrased items ~~which were~~ matched for paragliding pilots. The items were rated on a 5-point Likert-type scale (1 = never; 5 = always). Cronbach's α for the scale ~~s~~Sensation ~~s~~Seeking in the sample of the preliminary study is $\alpha = 0.88$.

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Statistics and data analysis. The probably relevant heuristics made the categories for the quantitative analysis. The categories were ~~formed deductive-based~~ on an existing systematisation without empirical data (Kuckartz, 2012). The categories are ~~a~~Anchoring, ~~s~~Sunk ~~c~~Cost ~~f~~Fallacy, ~~m~~Majority ~~h~~Heuristic, ~~f~~Framing, ~~a~~Ability ~~b~~Bias, ~~o~~Outcome ~~b~~Bias, ~~r~~Representativeness ~~h~~Heuristic, ~~r~~Recognition ~~h~~Heuristic, ~~a~~Availability ~~h~~Heuristic and ~~c~~Confirmation ~~b~~Bias. The data were analysed with FreeQDA (Produnis, 2011). No values were missing.

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Results of the Preliminary Study

Fig. 1 shows how many of the participants mentioned the heuristics described in the scenarios as relevant. The three most often mentioned heuristics are displayed in black, the less often mentioned heuristics in grey. The majority heuristic was mentioned by 28 pilots out of 34 and is ~~hence~~ ~~therefore~~ the most often mentioned heuristic. Sunk ~~c~~Cost ~~f~~Fallacy and ~~the~~ ~~a~~Availability heuristic were mentioned 21 times; the recognition heuristic, 18 times; the ~~c~~Confirmation ~~b~~Bias, 13 times; the ~~o~~Outcome ~~b~~Bias, 13 times; the representativeness heuristic, eleven times; the ~~a~~Ability ~~b~~Bias, five times; ~~a~~Anchoring and ~~f~~Framing, three times. ———

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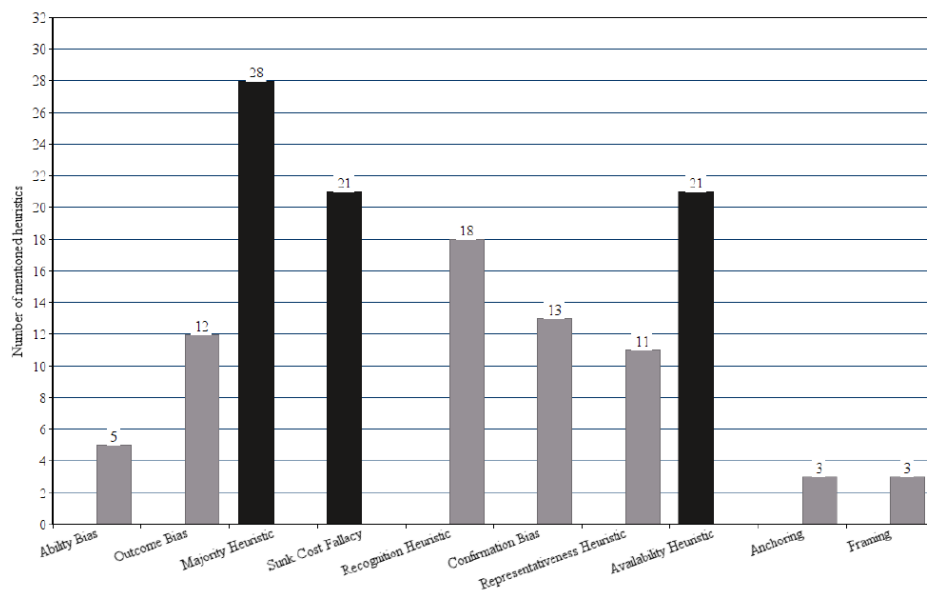
The mean of the scale ~~s~~Sensation ~~s~~Seeking is 2.8 (SD = ~~0.77~~). ~~The~~ ~~R~~range of this scale is 3.1, with minimum 1.4 and maximum 4.5. The mean of the scale ~~r~~Risk ~~f~~Faking is 1.84 (SD = ~~0.71~~). ~~The~~ ~~r~~range of the scale ~~r~~Risk ~~f~~Faking is 2.67, with minimum 1.0 and maximum 3.67. The scales ~~r~~Risk ~~f~~Faking and ~~s~~Sensation ~~s~~Seeking correlate significant positive (r = ~~0.50~~, p = ~~0.003~~) at the level p < ~~0.01~~.

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Figure



Discussion of the Preliminary Study

Paragliding pilots use all ten investigated ~~ten~~ heuristics for making their launch decisions. Pilots mentioned a Anchoring and a Framing were mentioned only three times each only. The reason for this could be the chosen way-method of operationalisation ~~operalisation~~. Anchoring and f Framing were developed and investigated in experimental design (Zz.B. Tversky & Kahneman, 1974; Kahneman & Tversky, 1982; Wamsley & Gilbey, 2016), which differs a lot significantly from the way-method of ~~operalisation~~ operationalisation used in this study. Perhaps the design of this study is not appropriate to for investigating ing anchoring and framing. This should be investigated in a future study. Because of the results, m Majority heuristic, sunk cost fallacy and a Availability heuristic will be investigated more

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Commented [V36]: Do you mean anchoring and framing should be investigated in a future study, or do you mean a future study should investigate whether it was appropriate to include them in this study?

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closely in the main study.