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Trust, Fairness and Helpfulness of Japan and Slovak University Students

Abstract: Introduction. Trust is becoming one of the serious problems of university education, both in terms of the quality of education itself and in terms of the quality of knowledge, skills and competences that students and graduates acquire. Based on the level of perceived trust, students decide how strong and persistent their pro-social motivation will be, i.e. their perception of fairness and helpfulness and, above all, the extent to which students will be willing to apply these attributes towards others. Purpose and methods. With the use of analysis, synthesis, comparison, abstraction, generalization, induction, deduction, modeling, etc., the purpose of the paper is to study trust of higher education students closely related to the topic of fair and helping behavior. All of these three phenomena are investigated from both perspectives: passive (in situations when they are received by a student from other entities) and active (in...
situations when they are actively performed by the student and are addressed toward the others). The empirical part presents the results of a questionnaire survey performed on \( n = 405 \) Japan students and \( n = 443 \) Slovak students, intended to find possible interrelations in their opinions regarding the general trust, fairness and helpfulness. 

**Results.** In the question aimed at expressing the opinion whether people can be trusted, or people cannot be too careful, as many as 68.89 % of Japanese and 66.82 % of Slovak respondents opted for the latter. 81.72 % of Slovak and 69.14% of Japan respondents preferred the opinion that people try to be fair. In the field of providing help, two thirds of the respondents (65.01 % and 69.63 %) expressed that people are generally mostly just looking out for themselves. 

**Conclusions and discussions.** The novelty of the paper stems from its theoretical, empirical as well as discussion part which confirm that it is useful to search the university students’ trust, fairness and help from the viewpoint of mutual dependences existing between them. The perceived trust influences the extent and quality of furtherly applied trust, fairness and helpfulness; the perceived fairness predetermines the furtherly applied fairness, trust and helpfulness, and simultaneously, the help taken from others build the student’s helpfulness, trust & trustworthiness, and fairness.

**Keywords:** trust, fairness, helpfulness, student, survey, comparison.

1. Introduction

**Problem statement.** Recent years have been a period of cataclysmic change and no university, whatever its origin is, can remain untouched (Law, 2013, p. 81). Although new opportunities and challenges are permanently arising, all processes for keeping them are very dynamic. They demand new and deeper knowledge of various aspects of the university environment and, especially, knowledge of students’ current characteristics, traits, changed expectations, desires, escalated necessities, etc. Within this perspective, understanding of motivation, satisfaction, personality traits such as trust, fairness and helpfulness might be considered important. This sensitive knowledge can be applied to “promote students’ classroom engagement, to foster the motivation to learn and develop talent, and to inform teachers how to provide a motivationally supportive classroom climate” (Reeve, 2009, p. 19).

**The state of studying the problem.** Trust is one of the variables that has attracted great interest in the academic community (Mulyono, 2014, p. 63). It is a firm belief in the reliability, truth, or ability of someone or something (Soanes & Stevenson, 2003, p. 1893). It is “an individual’s or group’s willingness to be vulnerable to another party based on the confidence that the latter party is benevolent, reliable, competent, honest and open” (Hoy & Tschannen-Moran, 1999, p. 189). According to Heffeman et al. (2018), the students’ trust can be considered “as an overall judgement that captures the components of ability, benevolence and integrity” (p. 233). If students believe that they can trust their teachers, they will be more likely to cooperate with instructional goals and
to be more actively engaged and, thus, to experience greater identification with the school (Mitchell, Kensler & Tschantzen-Moran, 2018).

Recently, numerous studies were devoted to the research of students’ trust. For example, Mulyono (2014) relates trust and commitment to the students’ loyalty and confirms their mutual dependence. Ulewicz (2014) considers trust as one of the most important elements that affect the process of building a great university. White (2018) examines relations of authority and trust between students and academic teachers from the viewpoint of student partnership; the partnership is an element with a strong positive relation to the students’ trust. Sama, Brahmasari & Ratih (2017) introduce a concept that studies the influence of marketing mix to trust and trust towards the competitive advantage of private higher education.

Although the list of the studies mentioned could continue, it points to the variability of specific research aspects which are related to the students’ trust. In addition, when examined deeper, a lot of studies are more internally specified. They study the students’ trust towards various forms, methods or techniques of learning. For example, trust is linked to an online learning (Wang, 2014), e-learning (Dwyer & Marsh, 2017), active learning (Cavanagh, 2018), supportive learning – especially weekly workshops and Math Café (Gill, Greenhow, 2011), collaborative learning (Nurhayati, Rosmaiyadi & Buyung, 2017), etc.

**Unresolved issues.** However, the investigation of trust in relation to understanding of *fairness and helpfulness* of university students is still absent in the literature. Especially, the opinions comparison of students from Japan (i.e. unique and specific country) versus students from Slovakia (i.e. Slavic country in the Central Europe) could contribute to the knowledge base in the field. With this intention, a simple thought-research model for this paper was elaborated (*Figure 1*). Dashed arrows in the Figure illustrate relations among all of the three phenomena searched in a comprehensive (mutually indivisible) view of each term, i.e. trust versus fairness versus helpfulness. Solid arrows illustrate relations among them when the active as well passive perspectives are respected in a case of each searched term: received & applied trust versus received & applied fairness versus received & applied helpfulness.

Based on the above-mentioned ideas, the aim of the article is to study trust of higher education students and its crucial aspects. With use of both theoretical and empirical analysis, synthesis, comparison, abstraction, generalization, etc. of knowledge and opinions, trust will be linked to fairness and helpfulness of university students. The empirical part will present the results of a questionnaire survey performed on $n = 405$ Japan students and $n = 443$ Slovak students, intended to find possible interrelations in this area. The survey’s results, generalization of experience and relevance of presented inspirations will be incorporated in the paper’s discussion and conclusion.
1.1. Student trust

Trust is a dynamic phenomenon that stems from the mind and soul of an individual. It affects understanding of all social elements, values, and behavior of other individuals or groups. “Trust is influenced by many types of factors and elements, e.g. material, time, spatial, and especially, relational, intelligent, emotional, commemorative, experiential, cognitive, etc.” (Blašková et al., 2015, p. 72). Since the “students almost every day keep in touch with their educational institution, this relationship can last for years” (Borges et al., 2016, p. 120).

From the perspective of higher education environment, several dimensions of students’ trust might be viewed. In accordance with the paper’s topic, trust dimensions defined in the following text are related to various forms of help and fairness too:

1. Trust towards the study subjects. When considering learning trust, it is necessary to respect the individual intellectual potential of each student. From this perspective, trust towards the study subject is the belief in the benefits of the subject for students to grow, while the benefits of
passing the subject considerably exceed the accompanying negatives (time spent preparing for seminars, accomplishing the assigned tasks, etc.). There are many students at universities who excel in all fields of study. According to Slavík et al. (2012), these can be described as students – generalists. There are also many students who excel in a specific field and have chosen their study program on a targeted basis, on the basis of “long-term self-education and/or preparation for university studies (by participating in various student competitions). For such students, studying the chosen program is a reward” (Sandanuseová, 2010). Probably, many students are successful in certain areas, however, they feel insecure and distrustful towards some subjects. For students who usually succeed in behavioral disciplines, such subjects usually include e.g. Mathematics, Informatics, Physics, etc. “It is important to help students not only to bridge the skill gap, but also to build their mathematical confidence” (Gill, Greenhow, 2011, p. 130). In contrast, students who are successful in technical disciplines, often feel some fear or distrust towards ‘soft’ subjects, such as Management, Human Resource Management, Organizational Behavior, etc. Both groups of students often need ‘knowledge help’ from the teacher or more clever students.

2. **Trust towards oneself.** “In addition to the interest in study, self-confidence is also important, which stems from self-knowledge and self-awareness of one’s own abilities, determines the desire for employment and is a manifestation of the student’s aspirations” (Slavík et al., 2012, p. 230). Self-trust means the volitional conviction of the individual in his or her own power, one’s own built potential and motivation. It represents the certainty of effective students’ behavior in the academic environment. The student considers these psychological and intellectual dispositions to be so strong that they give him or her a considerable internal guarantee that s/he can succeed in the university studies.

Self-trust allows students to be able to believe in the ability possessed, not easily give up in the face of every problem so that they are able to perform all tasks assigned independently and with maximal results (Nurhayati, Rosmaiyadi & Buyung, 2017, p. 57). It is the informed confidence one has in oneself (Dwyer & Marsh, 2017, p. 111) and although students should start at a university equipped for their learning, critical thinking and academic writing, and they should be able to do these tasks without much further help (Hilsdon, 2011, p. 20), the growing diversity of students makes such an assumption unrealistic (Haggis, 2006). This points to the need of ‘personality help’ from others and calls for fairness in social relations.

3. **Trust towards the peers and friends.** Trust in one’s own strength can be strengthened throughout the life by student’s parents and siblings.
This is probably the most significant lifelong motivational impact. Of course, with increasing age and acquired learning experience, the share of another, wider social environment is also increasing. According to Martorell, Papalia & Feldman (2015), the interaction of inheritance and experience gained is increasingly influenced by the experience acquired by an individual. Thus, it is precisely the classmates and friends, with whom the student spends study time, that can greatly enhance his or her self-confidence.

For the existence of trust, the spirit of cooperation among students is essential (Thomas, 2012). In such a view, trust can be considered as the extent to which student delivers control to the others (students, friends) in belief that s/he will fulfill the duties and responsibilities s/he respects (Charlebois, Palmour & Knoppers, 2016). Unlike the family, the student chooses friends him/herself (initially often on the basis of felt sympathy). However, the ability to fully trust friends, the student’s fairness and helpfulness are among the key attributes of staying in any social relationship. It follows that mutual friendly and peer support is an essential element of the student’s motivation and academic success.

4. **Trust towards the teachers.** A higher education teacher should be a natural human authority, a professional mentor and a role model who his or her students fully trust. Trust towards the teacher is a belief in the correctness of the teacher’s pro-social, pedagogical and scientific research anchor. “When students trust teachers and believe that they have their best interest at heart, they will be more likely to value school and school-related outcomes, to feel like they belong, and to work together with teachers to meet academic goals” (Mitchell, Kensler, Tschannen-Moran, 2018). In this view, “empathy found its way into education and teaching” (Berkovich, 2018, p. 2). Empathy is currently not only becoming the special competence that is possessed by some of the most socially attractive teachers. This one becomes the critical necessity of each responsible academic and serves as firm pillar of professional trustworthiness for the teacher and the students. In such situations, the teacher performs the role of an advisor, counselor, facilitator, and a reliable partner in the process of the overall student’s development. This evokes that apart from the ‘knowledge and competence-development help’ also the ‘evaluative fairness’ of teachers is important.

5. **Trust towards the university.** The university must be a dignified and honest partner of students in the process of their overall personality-cultivation progress. This type of trust represents the acceptance and positive belief of the student towards the university as an institution focused on the development of science, general knowledge, ethical and pro-social behavior and the like. Trust of students towards the univer-
University have a lot of positive outcomes and impacts. For example, it affects the students’ satisfaction and loyalty (Schlesinger, Cervera & Pérez-Cabañero, 2016); students’ commitment (Mulyono, 2014), retention (Meer & Chapman, 2014), students’ behavior toward transnational education partnership (Heffernan, Wilkins & Butt, 2018), etc.

Naturally, it is important to trust university in relation to the proper use of personal data of students too (Slade, Prinsloo & Khalil, 2018). However, according to Cheng (2016): “The current practice of quality evaluation has caused deterioration in the trusting relations between student and academic, as the evaluation is in favor of institutional competition and compliance, academic accountability and performativity, and value for money, and it encourages a consumerist culture” (p. 15). This calls for elimination of potentially impaired pillars of student’s institutional trust and leads to the necessity of ‘procedural fairness’ at the university and ‘relational help’ of academic consultants provided to students.

6. **Trust towards the society.** “Social trust at the individual level is subject to first-hand experience of the social world and the people in it, and daily contacts with others, which enable a truster to make a judgment about the trustworthiness of generalized others” (Huang, van den Brink & Groot, 2011, p. 290). Stated more concretely, trust in society anchors the accumulation of all types of trust that the student feels. They combine trust in one’s own strength, trust in family and friends, trust in study subjects, trust in teachers, trust in the university, etc. with overall belief in social order, morality, responsibility and fulfillment of interiorized pro-social expectations. It is therefore the result of ‘so-far provided help’ and ‘the received fairness’. However, it simultaneously instigates the ‘need to help others’ and ‘need to be fair’ towards other individuals and groups.

The above-mentioned dimensions emphasize that trust is a very sensitive characteristic. Trust is usually very difficult to build; it is based on a myriad of reasons. Disruption or even loss of trust can be caused not only by a major failure in relation to the individual or group under consideration. It may also be caused by unintentional or merely inadvertent behavior, which in other circumstances would not be of particular importance. However, in the given situation, and based on the previously perceived perceptions or indications, a serious disruption or even loss of confidence may occur and, subsequently, impaired trust may cause various imperfections in provided fairness and/or helpfulness.

**1.2. Fairness and helpfulness**

As in the case of opinions on the topic of students’ trust, the considerations of fairness and helpfulness could be also targeted at two directions
or perspectives. The first perspective may be to describe the nature of fairness and helpfulness when these terms/approaches are performed toward the student from other persons, groups and institutions. The second perspective may be to focus attention on describing fairness and helpfulness when these terms/approaches are performed by the student toward other persons, groups and institutions.

1.2.1. Student fairness

A student feeling of fairness can be defined as the accumulation of such experiences, emotions, and complex forms of student treatment that s/he receives, considers cognitively, and evaluates as objective, correct and generally ethical. The attributed ‘quality’ of behavior decency of the others certainly affects the academic motivation of the student and largely predetermines the ethics and fairness of the student’s behavior towards other individuals and groups.

Fairness is equated with justice which means integrity and excludes favoring (Zhang, 2014). It might be viewed and explained in “a context that focuses on distributional justice and equality of opportunity but also on principles of freedom and choice” (Smith, Todd & Laing, 2017, p. 336). Creating situation in which fairness is clear therefore presents a hopeful way of managing the impact of individuals’ social emotions on their justice judgments and justice-related actions and reactions (Blader et al., 2010, p. 46).

Numerous recent studies are focused on researching fairness within these three dimensions: (a) distributive fairness; (b) procedural fairness; (c) interactional fairness (Greenberg, 1990; Caglar, 2013; Yilmaz, 2014; etc.). Tost & Lind (2010) have even tried to differentiate between two groups of justice theories: “Findings from research on distributive, procedural and interactional justice perceptions indicate that people readily differentiate between fair and unfair treatment, while system justification research indicates that people resist the perception of injustice, suggesting that such differentiation is unlikely” (p. 7). Of course, different characteristics may be considered as fair or unfair sources of inequality depending on the subjective or collective normative beliefs (Brunori, Peragine & Serlenga, 2013, p. 20).

From this perspective, fairness in higher education could also be considered as equality of educational opportunity that should be perceived as a widely agreed principle; this principle “merges two powerful ideas: that all young individuals should have equal chances to succeed in life and that more hardworking students should emerge in the education competition” (Brunori, Peragine & Serlenga (2012, p. 767).

Zhang points out that being a fair teacher includes especially the proper selection of the contacting objects, fair application of teaching contents, fair communicating methods, proper selection of contacting targets, and fair evaluation of the communicating effects (Zhang, 2014). These qualities or
approaches could be inspirational also for the students when trying to develop their fairness towards the others. “Indeed, the consequences of the fairness of one group member’s specific encounters can reverberate throughout a group because those unaffected by particular decisions often witness, evaluate, and react to the fairness of those encounters” (Blader et al., 2010, p. 47). This means that it is necessary to measure whether a school’s process is fair, with particular attention to the student’s right to legal counsel (Berger & Berger, 1999).

As it is clear from the presentation of previous opinions, in the vast majority of cases, fairness is examined in relation to fair behavior applied to students. However, the purpose of this paper is to focus the attention on the opposite direction of fairness – fairness applied by students to others (students, teachers, parents, etc.). In this sense, the student fairness can be perceived as applying such behavior towards others, which is characterized by sincerity, an attempt to maintain honesty, adherence to the rules of decency, cooperation and belonging. Student fairness, as opposite to correctness of the expressions received from others, can be described as willingness, ability, competence, or even as a form of interpersonal intelligence, determining the moral suitability of behavior to others, keeping moral principles and respecting the rules enshrined in the envisaged environment (at the university, internship, student practice, public, etc.).

Certainly, the active students’ fairness is, to a large extent, (co-) determined by the confidence and perception of fairness level of behavioral patterns and forms perceived and experienced from the other party. Differently stated, perceived trust and received fairness are critical factors as well as creators of subsequently applied trust and fairness. The quality of previous and accepted trust & fairness predetermines the quality of future trust & fairness. In this sense they also form the willingness of students to help others, i.e. students’ helpfulness.

1.2.2. Student helpfulness

The help provided to students is extremely important. Despite the pretended overconfidence, many students need some form and scope of support. In this view, help given to students can be defined as providing appropriate material support or financial assistance (Isserstedt, 2007), organizational and administrative services (Ulewicz, 2017; Yatskiv & Ishmihametov, 2016; Sokól et al., 2015), learning support or counseling (Kim & Park, 2018; Niehaus et al., 2017; Klimova, 2015), psychological or mental aid (Lipson et al., 2019; Rueckert, 2015; Eisenberg, Golberstein & Hunt, 2009), expressing appropriate belonging (Gomez-Rey, Barbera & Fernandez-Navarro, 2017; Sarmini & Prasetyo, 2017; Błašková, Błaško & Tršková, 2015), etc. by other classmates, teachers, university administrative staff, and other entities.
It is common that students often feel overloaded and stressed (especially in the first year of their studies). They do not just have to contend with demanding university content, which is represented by lectures, seminars, new topics, the need to think critically and independently, the accented ability to learn effectively, and so on. They also have to struggle with loneliness and family isolation. Tachine, Cabrera & Yellow Bird (2017) mention that “the student centers on campus provide a ‘home away from home’ environment” (p. 785). It can be added that such relationship assistance often helps to overcome any difficulties associated with the demandingness of studying.

The above-mentioned passive understanding of help, i.e. help provided to the student, finds its reflection in an active understanding of help, i.e. help provided by student to the others. In this sense, students’ helpfulness represents the readiness for appropriate forms of contributive behavior, altruism, care for others, willingness to assist in any situation of need, replacement of ‘my and individual egoism’ by ‘our and societal progress’, etc.

Ryan & Deci (2018) opine that „under nurturing condition, pro-sociality comes naturally to most people” (p. 630). Continuing the logical line of this paper, the opinion of Rockenbach, Hudson & Tuchmayer (2014) could be presented too: “Becoming a more compassionate and socially aware person as a result of service work is positively linked to committing oneself to a meaningful life marked by helping others, civic engagement, and service” (p. 312).

Although helping others often demands a lot of energy, time, will, sometimes also material or financial costs, etc., it is very beneficial. Moreover, the university students should have such a personality inclination and ‘proactive humanness’. The reason is that helping gives benefits or yields not only to the addressee of the provided help. It also increases a value of oneself, sense of usefulness, social recognition, dignity, etc. of the helper.

According to Weinstein & Ryan (2010), helping and prosocial behaviors would satisfy all three basic psychological needs: (a) via helping others effectively, the helper is able to experience competence; (b) through a sense of empathy and interest in others, the helper can experience relatedness; (c) based on internal perceived lotus of causality, the helper’s autonomy is engaged. Satisfaction of these needs can result in various positive outcomes such as “positive mood and vitality” (Weinstein & Ryan, 2010, p. 222). In other words, justice research has demonstrated that the way people engage with other parties is based on their evaluation of the fairness of the other parties’ actions (Blader & Tyler, 2009).

2. Purpose and research methods

The purpose of the article is to research opinions of the university students about trust, disclose potential relations of trust to perceived help/fullness and fair/ness, and compare results obtained between two relatively different countries: Japan and Slovakia.
Trust, Fairness and Helpfulness of Japan and Slovak University Students

The methodological basis of the study is built on the main premise that the quality of helpful, trustworthy and fair approach applied by teachers, university and other forming entities predetermines students willingness ‘to return by their actions‘ all of accepted behavioral patterns to these entities. Moreover, the positive influential effect could even cause a sharing or dissemination of such pro-social behavioral patterns toward other individuals or groups (peers, friends, colleagues, etc.). The mentioned premise can be supported or completed by following three opinions:

(1) Trust is the perceived likelihood by which an individual expects that another individual or group, at worst, will not knowingly or willingly do the individual harm, and at best, will act in the individual’s interests (Huang, van den Brink & Groot, 2011). (2) According to Nurhayati, Rosmaiyadi & Buyung (2017), it is important „to instill self-confidence in students“. Intentionally developed or strengthened trust leads student to the more positive acceptance of other statuses, processes, people, conditions, chances, limits, etc. It enables him or her to properly understand the importance of being contributive, fair, helping and socially high-recognized. (3) In addition: “The activation of neural alarm system by social events or personal uncertainty switches the justice judgment process from the uncritical assimilation of justice information that characterizes the system justification mode to the system critique mode, in which individuals abandon their initial fairness heuristic and instead they vigilantly evaluate the justice of the outcomes, procedures, and treatment, which occur in their social environments” (Tost & Lind, 2010, p. 13).

Methods of research. Sociological research, performed via a questionnaire technique, was chosen as the most proper from the perspective of time, cost and return expected. Apart from identifiers of the respondents (course, gender, and age), the questionnaire consisted of three items (questions). As mentioned above, the focus of items was on trust, fairness and helpfulness, while each of the items has provided two predefined statements/responses, as follows. Item-1: Generally speaking, would you say that most people can be trusted or that you cannot be too careful in dealing with people? ([A] Can be trusted; [B] Cannot be too careful); Item-2: Do you think that most people would try to take advantage of you if they got the chance, or would they try to be fair? ([A] Try to be fair; [B] Take advantage); Item-3: Would you say that most of the time, people try to be helpful, or that they are mostly just looking out for themselves? ([A] Try to be helpful; [B] Look out for themselves), (Kokubo, 2016).

Information base of research. In detail, surveys in both countries – Japan and Slovakia – were performed in 2019. The number of Japan respondents was $n = 405$ of which 144 were males and 261 were females. Respondents were students of three universities, specifically: Atomi University, Meiji University, and Wako University.
The number of Slovak respondents was \( n = 443 \) of which there were 300 males and 143 females. The respondents were students of the University of Žilina and attended four study programs: Management, Informatics, Information Management and Computer Engineering.

*Table 1* documents the characteristics of Japan and Slovak respondents. This shows that Slovak respondents were older on average (21 versus 19 years of age). Another small difference is the distribution of respondents by gender: in the set of Japan students, there were much more females than males, while in the set of Slovak students, the situation is opposite. Disproportion of Slovak respondents was influenced by the fact that two of addressed study programs have more technical character, one program is a combination of management and informatics and only one program is fully behaviorally orientated.

*Table 1. Basic characteristics of respondents*

| Country          | Japan \((n = 405)\) | Slovak \((n = 443)\) |
|------------------|----------------------|----------------------|
| **Sex**          | Male  | Female | Male  | Female |
|                  | 144   | 261    | 300   | 143    |
| **Average age**  | 19    | 18     | 21    | 21     |

Source: it has been developed on the basis of own study

3. Research results

For the purposes of this paper, the attention was focused on evaluating three issues associated with trust. The data obtained were primarily investigated by quantifying the frequencies (*Table 2*). In the first question, aimed on *trust*, respondents had the opportunity to comment on whether (A) *People can be trusted* or (B) *People cannot be too careful*. Up to 68.89% of Japanese respondents and 66.82% of Slovak respondents favored the latter, i.e. answer B. If generalized expressions will be impersonated and related directly to the personality of the respondents (because many respondents look at and comment on the generalized behavior of other people through the perspective of their own behavior – the perspective of their own reassessment), it can be stated that participated students generally do not trust others. This result suggests a deepening relationship crisis that affects the global society, including the academic environment.

The second question examined *fairness*. Respondents were to decide whether (A) *People try to be fair* or (B) *People take advantage*. Again, the opinions of both Japanese and Slovak respondents were similar. Both groups
tended to choose the first answer, i.e. statement A. In detail, 81.72 % of Slovak students think that people behave fairly. On the other hand, for Japanese respondents, the response rate is significantly lower: 69.14 %. Compared to the answers to the first question (and subsequently to the third question), the results are much more positive. Despite the preference not to care too much about others, fortunately, in the area of fairness, respondents maintained their positive behavioral perspective. In other words, they are ethically tuned and resolutely reject pure egoism.

Table 2. Responses on trust, fairness and helpfulness

| Question                                                                 | Option                                      | Japan           | Slovakia        |
|--------------------------------------------------------------------------|---------------------------------------------|-----------------|-----------------|
|                                                                          | Freq. [%]                                   | Freq. [%]       |
| 1. Generally speaking, would you say that most people can be trusted or  | (A) Can be trusted                          | 126 31.11       | 146 32.96       |
| that you can’t be too careful in dealing with people?                     | (B) Can’t be too                             | 279 68.89       | 296 66.82       |
|                                                                          | careful                                     |                 |                 |
| 2. Do you think that most people would try to take advantage of you if  | (A) Try to be fair                           | 280 69.14       | 362 81.72       |
| they got the chance, or would they try to be fair?                       | (B) Take advantage                          | 125 30.86       | 80 18.06        |
| 3. Would you say that most of the time, people try to be helpful, or that| (A) Try to be helpful                        | 123 30.37       | 153 34.54       |
| that they are mostly just looking out for themselves?                    | (B) Look out for                             | 282 69.63       | 288 65.01       |
|                                                                          | themselves                                  |                 |                 |

Source: it has been developed on the basis of own study

For higher imagery, the values from Table 2 were subsequently processed into graphs (Figure 2 and 3).

The last question focused on the willingness to provide help. Most Slovak (65.01 %) and Japanese (69.63 %) respondents are in favor of statement B (second answer). Generally, they characterize people’s behavior by taking care of themselves. If these results are transferred to student personalities, i.e. if their general vision of others’ behavior are transferred to their own behavior, both Slovak and Japanese students show less willingness to help others. This can be attributed to some degree of undermined trust, often inflicted on incorrect behavior by other individuals and groups.
For a more detailed analysis of the data collected, the *interrelations between the answers* to all three questions and the possible dependence of the answers on the respondents’ gender (using Wizard software) were examined. In addition to the general dependency (as measured by the Chi-Square Test), specific correlations were also examined, in relation to the designation of option (A) for each of the questions (*Table 3* and *4*).

*Table 3*. Correlation between items – Japan

| Combinations analysed                      | Chi-Square Test | Product-Moment Correlation |
|-------------------------------------------|-----------------|---------------------------|
| 1\(^{st}\) versus 2\(^{nd}\) question (trust versus fair) | z 5.086 P-value <0.001 Significance yes | r 0.253 P-value <0.001 Significance yes |
| 1\(^{st}\) versus 3\(^{rd}\) question (trust versus help) | z 2.505 P-value 0.012 | r 0.124 P-value 0.012 |
| 2\(^{nd}\) versus 3\(^{rd}\) question (fair versus help) | z 3.032 P-value 0.002 | r 0.151 P-value 0.002 |

Source: it has been developed on the basis of own study
The results of the analysis of Japanese data differ significantly from the Slovak ones. The statistically significant dependence was confirmed among all the issues examined (Table 3). Characteristics for Chi-Square Test: $C = 1.96$; admissible error = 5%; confidence interval = 95%; if: $z > C$ => not independent; if: $z < C$ => independent. Characteristics for Product-Moment Correlation: $C = 0.097$; admissible error = 5%; confidence interval = 95%; if: $r > C$ => not independent; if: $r < C$ => independent.

### Table 4. Correlation between items – Slovakia

| Combinations analysed | Chi-Square Test | Product-Moment Correlation |
|-----------------------|-----------------|-----------------------------|
| 1\text{st} versus 2\text{nd} question (trust versus fair) | $z$ = 1.147 | $r$ = 0.055 |
| P-value | 0.251 | P-value = 0.252 |
| Significance | no | Significance = no |
| 1\text{st} versus 3\text{rd} question (trust versus help) | $z$ = 2.599 | $r$ = 0.123 |
| P-value | 0.009 | P-value = 0.009 |
| Significance | yes | Significance = yes |
| 2\text{nd} versus 3\text{rd} question (fair versus help) | $z$ = 0.47 | $r$ = 0.022 |
| P-value | 0.639 | P-value = 0.640 |
| Significance | no | Significance = no |

An analysis of the data from Slovakia (Table 4) showed the dependence between the first and third question. The dependencies between questions 1 and 2 and between questions 2 and 3 were not statistically significant. It can be stated that up to 43.2% of respondents who marked option (A) in the first question also tended to choose option (A) in the third question. It follows that these students are inclined to trust people while trying to be helpful. Characteristics for Chi-Square Test: $C = 1.96$; admissible error = 5%; confidence interval = 95%; if: $z > C$ => not independent; if: $z < C$ => independent. Characteristics for Product-Moment Correlation: $C = 0.093$; admissible error = 5%; confidence interval = 95%; if: $r > C$ => not independent; if: $r < C$ => independent.

In addition to the interdependence of individual statements, the authors of the paper also decided to examine the potential dependence of respondents’ statements on their gender. Gender influenced only the choices of Japanese respondents in the second question, i.e. question on fairness: answer (A)
was reported by 73.95% of females and 60.42% of males. Among the Slovak respondents, the dependence on gender was not proven at all (Table 5). Characteristics for Chi-Square Test: $C = 1.96$; admissible error = 5%; confidence interval = 95%; if: $z > C$ => not independent; if: $z < C$ => independent.

**Table 5.** Correlation between gender and responses – Slovakia and Japan

| Dependence by gender | Japan | Slovakia |
|----------------------|-------|----------|
|                      | Chi-Square Test | Chi-Square Test |
| 1st question (trust) | $z$ | 1.39 | $z$ | 0.893 |
|                      | P-value | 0.164 | P-value | 0.372 |
|                      | Significance | no | Significance | no |
| 2nd question (fair)  | $z$ | 2.822 | $z$ | 1.01 |
|                      | P-value | 0.005 | P-value | 0.312 |
|                      | Significance | yes | Significance | no |
| 3rd question (help)  | $z$ | 1.294 | $z$ | 1.645 |
|                      | P-value | 0.196 | P-value | 0.100 |
|                      | Significance | no | Significance | no |

Source: it has been developed on the basis of own study

**4. Conclusions and discussion**

Ideas move mountains, especially in these days, and a communication strategy centred on an emotional connection with customers/students is paramount; being loved is good for the operation of university, its image, and other important indicators. Being hated means a failure to connect with students, thereby drastically decreasing the university’s education-market share (Jílková, 2016, p. 118), and the confidence in general ethics of higher education.

From the perspective of impaired social ties, following opinion of Fukuyama is relevant: “When celebrate the breakdown of hierarchy and authority, one critical factor is neglected: trust, and the shared ethical norms that underlie it. Communities depend on mutual trust and will not arise spontaneously without it” (1995). This emphasizes the need for developing university students’ trust, fairness and helpfulness as the university graduates are bearers of next progress in the whole society.

In this line, Study of Raza et al. (2018), participated by 350 university students of Karachi, has examined the impact of chosen attributes on know-
The results show that students’ attitude, trust, subjective norm, motivation and rewards have a significant positive impact on knowledge exchange behavior between university students: “Students need motivation, trust factor and perceived behavior that lead the knowledge sharing attitude between them” (Raza et al., 2018, p. 287). This supports the results of Japanese respondents presented in Table 3 which document the strong dependency of trust, fairness and helping others. At the same time, although the answers of Slovak respondents (Table 4) confirmed that the strong dependency exists only between the trust and help provided to others, other relations cannot be refused.

Borges et al. performed a quantitative and descriptive study on a sample of 513 Brazil students regarding the differences in student trust in public versus private higher education institutions. The results indicate that “students belonging to a private university trust more in it than students from a public university trust their institution. It was also found that women rely more on their universities than men, and that trust in the university by the students tends to decrease with time” (Borges, 2016, p. 119). Also, the study of Yilmaz, conducted at 1,042 Turkish students, revealed that there is a relationship between the students’ fairness perceptions in the learning environment and their satisfaction with life. The students perceived the learning environment as partially fair and rated their satisfaction with life at a moderate level. “Female students’ fairness perceptions regarding the learning environment were significantly lower than male students’” (Yilmaz, 2014, p. 1074). This is partially different from the results presented in Table 5 where the dependence on sex was confirmed only in the group of Japan respondents, concretely in the question on fairness. However, although the survey presented in this article did not confirm gender-dependency in the topic of trust and helpfulness (in the set of Japan respondents) and any gender-dependency in the set of Slovak respondents, it can be stated that, supported by the above-mentioned studies, different understanding of trust, fairness and helpfulness of female versus male students potentially exists there. This means that the students’ individual willingness to use the above-mentioned pro-social competences could be individually differentiated, with regard to various other factors or powers.

Based on the thought model of this article (Figure 1) which illustrates the possible links among the students’ trust, fairness and helpfulness, and especially based on the results presented in both the theoretical and empirical part of the paper, the following conclusions could be drawn:

1. The connected linkages of all of the three academic phenomena chosen for this paper, i.e. trust, fairness and help, point out that it is possible and even useful to search these phenomena in their mutual dependence. This
scientific perspective underlines the importance of social ties and overall academic motivation of students.

2. All of the three studied phenomena should be investigated from both chosen perspectives: passive and active. The passive perspective consists of an experience-recognized matter-of-fact, i.e. when these terms/approaches are performed toward the student by other persons, groups and institutions. The active perspective consists of phenomena’s conscious-applicable matter-of-fact, i.e. when these terms/approaches are performed by the student toward other persons, groups and institutions.

3. The perceived as well performed students’ trust influence (positively as well negatively) both the students’ fairness and helpfulness. The survey’s results, presented in Section 3, especially responses of Japan students, could serve as an indication that the mutual dependencies of the studied phenomena exist also in partial form: the perceived fairness acts on and predetermines the furtherly applied fairness and both trust and helpfulness, and simultaneously, the help taken from others builds one’s helpfulness, trust & trustworthiness, and fairness.

4. Although the opinions of students regarding trust, fairness and helpfulness were researched on the sets of respondents from two different countries, i.e. Japan and Slovakia, the results obtained are similar/comparable in two out of three studied phenomena: trust and help. Only in the case of fairness, the results differed more strongly. It could be judged as very interesting because Japan is known as an Asian country with a unique hierarchical culture and high rate of technological growth, while Slovakia, on the other hand, is a European country with a Slavic naturel, described often as a culture of non-formal relationships and re-imported engineering (especially automotive) industry.

The above-mentioned conclusions represent the novelty of this article. They could also serve as an inspiration or prospect for further scientific researches that should be performed with the participation of university students in other countries. Alternatively, trust, fairness and helpfulness could be explored using other types or sets of respondents, e.g. employees and managers of both manufacturing and non-manufacturing organizations.

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References:

Berger, C., & Berger, V. (1999). Academic discipline: A Guide to fair process for the university student. Columbia Law Review, 99(2), 289-364, doi: 10.2307/1123582.

Berkovich, I. (2018). Conceptualisations of empathy in K-12 teaching: A review of empirical research. Educational Review, doi: 10.1080/00131250.2018.1530196.

Blader, S. L., & Tyler, T. R. (2009). Testing & extending the Group Engagement Model: Linkages between social identity, procedural justice, economic outcomes and extra role behavior. Journal of Applied Psychology, 94(2), 445-464, doi: 10.1037/a0013935.

Blader, S. L., Wiesenfeld, B. M., Rothman, N. B., & Wheeler-Smith, S. L. (2010). Social emotions and justice: How the emotional fabric of groups determines justice enactment and reactions. Research on Managing Groups and Teams: Fairness and Groups (E. A. Mannix, M. A. Neale, & E. Mullen, Eds.). (Vol. 13). Bingley, UK: Emerald Publishing, 29-62.

Blašková, M., Blaško, R. & Tršková, K. (2017). Decision making of university teacher: Motivating and inspiring students versus too high criticality and demands of teacher. New Trends and Issues Proceedings on Humanities and Social Sciences, 2, 23-36, doi: 10.18844/gjhss.v3i2.1596.

Blašková, M., Blaško, R., Kozubíková, Z., & Kozubík, A. (2015). Trust and reliability in building perfect university. Procedia – Social and Behavioral Science, 205, 70-79, doi: 10.1016/j.sbspro.2015.09.019.

Borges, G., Carvalho de Souza Domingues, M. J., & Cassia da Silveira Cordeiro, R. (2016). Student’s trust in the university: Analyzing differences between public and private higher education institutions in Brazil. International Review on Public and Nonprofit Marketing, 13(2), 119-135, doi: 10.1007/s12208-016-0156-9.

Brunori, P., Peragine, V., & Serlenga, L. (2012). Fairness in education: The Italian university before and after the reform. Economics of Education Review, 31(5), 764-777.

Brunori, P., Peragine, V., & Serlenga, L. (2013). The Bologna Process and fairness in university education: Evidence from Italy. CESifo DICE Report, 2, Retrieved from https://www.cesifo-group.de › dicereport213-forum3.

Caglar, C. (2013). The relationship between the perceptions of fairness of the learning environment and the level of alienation. Eurasian Journal of Educational Research, 50,185-206.

Cavanagh, A. J., Chen, X., Bathgate, M., Frederick, J., Hanauer, D. I., & Graham, M. J. (2018). Trust, growth mindset, and student commitment to active learning in a college science course. CBE Life Sciences Education, 17(1), doi: 10.1187/cbe.17-06-0107.
Charlebois, K., Palmour, N., & Knoppers, B. M. (2016). The adoption of cloud computing in the field of genomics research: The influence of ethical and legal issues. *PLoS ONE, 11*(10), 1-33, doi: 10.1371/journal.pone.0164347.

Cheng, M. (2016). *Quality in Higher Education: Developing a Virtue of Professional Practice*. Rotterdam: Sense Publishers.

Dwyer, N., & Marsh, S. (2017). Self-trust, self-efficacy and digital learning. *IFIP International Conference on Trust Management* (J.-P. Steghöfer, & B. Esfandiari, Eds.). Cham: Springer, 110-118, doi: 10.1007/978-3-319-59171-1_9.

Eisenberg, D., Golberstein, E. & Hunt, J. B. (2009). Mental health and academic success in college. *The B.E. Journal of Economic Analysis & Policy, 9*(1), doi: 10.2202/1935-1682.2191.

Fukuyama, F. (1995). *Trust: The Social Virtues and the Creation of Prosperity*. New York: Free Press.

Gill, M., & Greenhow, M. (2011). Building student confidence in Mathematics and Numeracy. *Learning Development in Higher Education* (P. Hartley, J. Hilsdon, C. Keenan, S. Sinfieled, & M. Verity, Eds.). Basingstoke, UK: Palgrave Macmillian, 129-142.

Gomez-Rey, P., Barbera, E. & Fernandez-Navarro, F. (2017). Student voices on the roles of instructors in asynchronous learning environments in the 21st century. *International Review of Research in Open and Distributed Learning, 18*(2), 234-251, doi: 10.19173/irrodl.v18i2.2891.

Greenberg, J. (1990). Organizational Justice: Yesterday, today and tomorrow. *Journal of Management, 16*(2), 339-432, doi: 10.1177/014920639001600208.

Haggis, T. (2006). Pedagogies for diversity: Retaining critical challenge amidst fears of dumbing down. *Studies in Higher Education, 31*(5), 521-535, doi: 10.1080/03075070600922709.

Heffernan, T., Wilkins, S., & Butt, M. (2018). Transnational higher education. *International Journal of Educational Management, 32*(2), 227-240, doi: 10.1108/IJEM-05-2017-0122.

Hilsdon, J. (2011). What is learning development? *Learning Development in Higher Education* (P. Hartley, J. Hilsdon, C. Keenan, S. Sinfieled, & M. Verity, Eds.). Basingstoke, UK: Palgrave Macmillian, 13-27.

Hoy, W. K., & Tschannen-Moran, M. (1999). Five faces of trust: An empirical confirmation in urban elementary schools. *Journal of School Leadership, 9*, 184-208, doi: 10.1177/105268469900900301.

Huang, J., van den Brink, H. M., & Groot, W. (2011). College education and social trust: An evidence-based study on the causal mechanisms. *Social Indicators Research, 104*(2), 287-310, doi: 10.1007/s11205-010-9744-y.

Isserstedt, W., Middendorf, E., Fabian, G., & Wolter, A. (2007). Economic and Social Conditions of Student Life in the Federal Republic of Germany in 2006. *18th Social Survey of the Deutsches Studentenwerk*
Trust, Fairness and Helpfulness of Japan and Slovak University Students

conducted by HIS (Hochschul Information System): Selected Results. Bonn; Berlin: BMBF.

Jílková, P. (2016). Brands we love or know on the Czech financial market. Marketing Identity: Brands WE LOVE – part II: Conference Proceedings from International Scientific Conference (D. Petranová, L. Čábyová, & Z. Bezáková, Eds.). Trnava: University of SS. Cyril and Methodus, 118-126.

Kim, S., & Park, J. (2018). Development and Application of Learning Materials to Help Students Understand Ten Statements Describing the Nature of Scientific Observation. International Journal of Science and Math Education, 16, 857-876, doi: 10.1007/s10763-017-9823-5.

Klimova, B. (2015). Developing ESP study materials for students at a non-philological faculty. Procedia – Social and Behavioral Sciences, 197, 104-107, doi: 10.1016/j.sbspro.2015.07.063.

Kokubo, H. (2016). A questionnaire survey for the digital native generation on their anomalous experiences and trust for other persons – Part 2. Journal of International Society of Life Information Science, 34(2), 133-152.

Law, D. (2013). Educational values and the values of higher education. Perspectives: Policy and Practice in Higher Education, 17(3), 81-83, doi: 10.1080/13603108.2013.856355.

Lipson, S. K., Abelson, S., Ceglarek, P., Phillips, M., & Eisenberg, D. (2019). Investing in Student Mental Health: Opportunities & Benefits for College Leadership. Washington: American Council of Education.

Martorell, G., Papalia, D. E., & Feldman, R. D. (2015). A Child’s World: Infancy through Adolescence, 13th ed. New York: McGraw-Hill Education.

Meer, N. M., & Chapman, A. (2014). Assessment for confidence: Exploring the impact that low-stakes assessment design has on student retention. The International Journal of Management Education, 12(2), 186-192, doi: 10.1016/j.ijme.2014.01.003.

Mitchell, R. M., Kensler, L., & Tschannen-Moran, M. (2018). Student trust in teachers and student perceptions of safety: Positive predictors of student identification with school. International Journal of Leadership in Education, 21(2), 135-154, doi: 10.1080/13603124.2016.1157211.

Mulyono, H. (2014). Mediating effect of trust and commitment on student loyalty. Business and Entrepreneurial Review, 14(1), 57-76, doi: 10.25105/ber.v14i1.50.

Niehaus, E., Holder, C., Rivera, M., Garcia, C. E., Woodman, T. C., & Dierberger, J. (2017). Exploring integrative learning in service-based alternative breaks. The Journal of Higher Education, 88(6), 922-946, doi: 10.1080/00221546.2017.1313086.

Nurhayati, Rosmaiayi, & Buyung (2017). Efforts to improve student’s self confidence using collaborative learning model. Journal Pendidikan Matematika Indonesia, 2(2), 57-62, doi: 10.26737/jpmi.v2i2.223.
Raza, S. A., Abidi, M., Arsalan, G. M., Shairf, A., & Qureshi, M. A. (2018). The impact of student attitude, trust, subjective norms, motivation and rewards on knowledge sharing attitudes among university students. *International Journal of Knowledge and Learning, 12*(4), 287-304, doi: 10.1504/IJKL.2018.095955.

Reeve, J. (2009). *Understanding Motivation and Emotion*, 5th ed. Hoboken, NJ: John Wiley & Sons.

Rockenbach, A. B., Hudson, T. D., & Tuchmayer, J. B. (2014). Fostering meaning, purpose, and enduring commitments to community service in college: A multidimensional conceptual model. *The Journal of Higher Education, 85*(3), 312-338, doi: 10.1080/00221546.2014.11777330.

Rueckert, H.-W. (2015). Students’ mental health and psychological counselling in Europe. *Mental Health & Prevention, 3*, 34-40, doi: 10.1016/j.mhp.2015.04.006.

Ryan, R. M., & Deci, E. L. (2018). *Self-Determination Theory: Basic Psychological Needs in Motivation, Development, and Wellness*. New York: Guilford Press.

Sama, H., Brahmasari, I. A., & Ratih, I. A. B. (2017). The influence of marketing mix on student trust and its impact on competitive advantage of private higher education institution. *Archives of Business Research, 5*(8), 82-91, doi: 10.14738/abr.58.3563.

Sandanusová, A. (2010). Management of Care for Talents in SR on Example of Student Professional Activity. *Teacher Training in the Context of Current Changes in Education*. Brno: Tribun EU, 19-25.

Sarmini, & Prasetyo, K. (2017). Construction and strategies for strengthening the value of integrity for students to build a culture dignity and competitively in Universitas Negeri Surabaya. *Advanced Science Letters, 23*(12), 11762-11765, doi: 10.1166/asl.2017.10512.

Schlesinger, W., Cervera, A., & Pérez-Cabañero, C. (2016). Sticking with your university: The importance of satisfaction, trust, image, and shared values. *Studies in Higher Education, 42*(12), 2178-2194, doi: 10.1080/03075079.2015.1136613.

Slade, S., Prinsloo, P., & Khalil, M. (2019). Learning analytics at the intersections of student trust, disclosure and benefit. *The 9th International Learning Analytics & Knowledge Conference (LAK19)*. Tempe, AZ, USA, 235-244, doi: https://doi.org/10.1145/3303772.3303796.

Slavík, M. et al. (2012). *Vysokoškolská pedagogika [University Pedagogy]*. Praha: Grada (in Cz).

Smith, L. M., Todd, L., & Laing, K. (2018). Students’ views on fairness in education: the importance of relational justice and stakes fairness. *Research Papers in Education, 33*(3), 336-353, doi: 10.1080/02671522.2017.1302500.

Soanes, C., & Stevenson, A. (2003). *Oxford Dictionary of English*, 2nd ed. Oxford: Oxford University Press.
Sokół, A., Gozdek, A., Figurska, I., & Blašková, M. (2015). Organizational climate of higher education institutions and its implications for the development of creativity. *Procedia – Social and Behavioral Sciences, 182*, 279-288, doi: 10.1016/j.sbspro.2015.04.767.

Tachine, A. R., Cabrera, N. L., & Yellow Bird, E. (2017). Home away from home: Native American students’ sense of belonging during their first year in college. *The Journal of Higher Education, 88*(5), 785-807, doi: 10.1080/02221546.2016.1257322.

Thomas, L. (2012). *Building Student Engagement and Belonging in Higher Education at a Time of Change*. London: Paul Hamlyn Foundation.

Tost, L. P., & Lind, E. A. (2010). Sounding the alarm: Moving from system justification to system condemnation in the justice judgment process. *Research on Managing Groups and Teams: Fairness and Groups* (E. A. Mannix, M. A. Neale, & E. Mullen, Eds.). (Vol. 13). Bingley, UK: Emerald Publishing, 3-27.

Ulewicz, R. (2014). Application of Servqual Method for evaluation of quality of educational services at the university of higher education. *Polish Journal of Management Studies, 9*(1), 254-264.

Ulewicz, R. (2017). The role of stakeholders in quality assurance in higher education. *Human Resources Management and Ergonomics, 11*(1), 93-107.

Wang, Y. D. (2014). Building student trust in online learning environments. *Distance Education, 35*(3), 345-359, doi: 10.1080/01587919.2015.955267.

Weinstein, N., & Ryan, R. M. (2010). When helping helps: Autonomous motivation for prosocial behavior and its influence on well-being for the helper and recipient. *Journal of Personality and Social Psychology, 98*(2), 222-244, doi: 10.1037/a0016984.

White, M. (2018). Student partnership, trust and authority in universities. *Educational Philosophy and Theory, 50*(2), 163-173, doi: 10.1080/00131857.2016.1153451.

Yatskiv, I., & Ishmuhametov, I. (2016). Scientific activities motivation of higher education institute staff. *Actual Problems of Education (MIP 2016): Abstracts of the International Scientific and Educational Conference* (I. Ishmuhametov & B. Misnevs, Eds.). Riga, Latvia: Transport and Telecommunication Institute, 15-16.

Yilmaz, I. (2014). Fairness in the learning environment and satisfaction with life: A study of Turkish university students or sports sciences. *Anthropologist, 18*(3), 1069-1076, doi: 10.1080/09720073.2014.11891589.

Zhang, B. W. (2014). A research on fairness of teacher-student contacts in college sports classes. *Studies in Sociology of Science, 5*(4), 97-101, doi: 10.3968/5903.