Organizational Commitment, Organizational Justice and Work Satisfaction: A Comprehensive Model in a Romanian Organizational Setting

Zsolt E. Veress 1* & Alin Gavreliuc 1

1 Department of Psychology, West University of Timișoara, Romania.

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Our paper investigates the way in which the different dimensions of organizational justice and organizational commitment are mediated by work satisfaction. The rationale of the study is twofold. First, in our opinion there is a gap in scientific literature when it comes to studies that explore the way in which the dimensions of organizational justice and organizational commitment interact, most researches treating commitment as an aggregate concept. Second, even though the interaction between organizational justice, job satisfaction and organizational commitment is well documented, studies that consider job satisfaction a mediator rather than an outcome variable are few even, if these few provide strong evidence regarding the value of job satisfaction as a mediator. Our research was done two Romanian manufacturing organization, in Harghita and Brașov Counties (N = 676) and the collected data was interpreted using exploratory factor analysis and structural equation modeling. The obtained model not only further reinforces existing body of knowledge regarding the strong relation between organizational justice and commitment but also proposes a way in which the dimensions of these two concepts relate to each other, relation that is mediated by job satisfaction. Our proposed model shows that three of the four dimensions of organizational justice (procedural, distributive, interactional justice) are mediated by job satisfaction (distributive justice) and one is partially mediated (procedural).

Keywords: organizational justice, job satisfaction, organizational commitment.

Address of correspondence: Zsolt Veress, Department of Psychology, West University of Timișoara, Bld. V. Pârvan nr. 4, Timișoara, 300233, Romania.
E-mail: veresszs@gmail.com

Introduction

The fact that the dimensions of procedural justice, job satisfaction and organizational commitment are linked is undeniable, as numerous researches from the last two decades have proven it, however what is not precisely clear is the exact way in which they influence each other, and what the exact relations between the different dimensions of the constructs are.

There are numerous researches, as supported by several meta-analysis in the field (Colquitt, Conlon, Wesson, Porter, & Ng, 2001) that describe the relation between organizational justice and organizational commitment, reporting correlations between the two concepts between .48 and .61, however even if the link between the two constructs is well established, the way in which they relate to each other is not very clear. Research has shown, that this relation can be mediated by constructs like organizational structure (Ambrose & Sceminke, 2003), organizational trust (Aryee, Budhwar, & Chen, 2002), perceived organizational support (Otto & Mamaloglu, 2015; Loi, Ngo, & Foley, 2006) and also job satisfaction (Fulford, 2005). Most of these researches however investigate relations between the general concepts, without trying to observe interactions between the dimensions of the constructs treating the outcome variable, for example organizational commitment, as an aggregate score form (Cheng, 2014; Fulford, 2005; Ma, Xing, Wang, & Chen, 2013; Crow, Lee, & Joo, 2012). The present study attempts to contribute to the field by exploring the interactions between the dimensions of the targeted constructs through structural equation modeling, but also taking into consideration mediating factors, in this case job satisfaction. The use of job satisfaction as a moderator can also be considered an unorthodox approach and a contribution, as most studies (Bakhsi, Kumar, & Rani, 2009; Lambert, Hogan, & Griffin, 2007; Lowe & Vodanovich, 1995) tend to consider this concept as an
outcome variable on the same level with organizational commitment rather than a mediator.

**Theoretical framework**

The According to Greenberg and Lind *organizational justice* describes, (1987), the way people perceive justice inside an organization. Research focused on organizational justice has a long tradition in American organizational psychology, where the construct was first developed in the 90’s by psychologists Adams and Greenberg (1986) by applying equity theory concepts to an organizational setting. In general as Byrne and Kiersch (2013) state, social-psychologists studying organizational justice incline to agree that there are three to four prominent forms of fairness perception: distributive justice, defined as the fairness of the results obtained by the employee through his/hers interactions as a product of decisions procedures/actions undertaken by employers in accordance with organizational policy; procedural justice, defined as the perceived fairness of the policies and procedures used to make decisions (Greenberg, 1986); and interactional justice. From all of the dimensions of organizational justice, this particular one, which from a chronological standpoint is the newest dimension, is also the most contested one. Originally this particular dimension was proposed by Bies and Moag in which they define interactional justice as the extent to which individuals see their leaders as being fair, sincere and having logic or rationale for what they do (Bies & Moag, 1986) or in other words how fairly treated does a particular employee feel by his supervisor when procedures are enacted. Bies then updated his conceptualization of the original concept stating that “people are concerned about interpersonal treatment in their everyday encounters in organizations. Interactional concerns transcend formal decision-making contexts...” (Roch&Shanock 2007 apud Bies 2001), Colquitt re-conceptualized Bies’s interactional justice as interpersonal justice and included the new sub dimension of informational justice that targets the way procedures are explained by supervisors to their subordinates (Colquitt J. A., 2001). Based upon the updated definition of Bies, Roch and Shanock proposed a new scale to assess this particular dimension, scale that was used in the present paper.

*Organizational commitment* until the late 80’s was viewed as Monday, Steers and Porter (1979) summarized, from a behavioral or an attitudinal angle, however at the beginning of the 90’s Meyer and Allen (1991) suggested a new point of view that since became the status quo of organizational commitment research. The construct was split into three sub dimensions: affective commitment, defined as the reflection of the employee’s emotional attachment to, identification with and involvement in the organization; normative commitment, defined as the employees feeling of obligation to remain with an organization; and continuance commitment, defined as recognition of the costs associated with leaving the organization (Meyer, Irving, & Allen, 1998).

As the meta-analysis of Colquitt and al. (2001) exemplifies, procedural justice is positively linked to organizational commitment, a conclusion that is also supported on an international level (Cheng, 2014; Yang, Peng, & Mossbholder, 2004). However when it comes to the relation between the dimensions of the two constructs (procedural justice, distributive justice interactional justice, affective commitment, normative commitment and continuance commitment), things get more complicated. One of the most comprehensive enquiries regarding this subject was made by the meta-analysis of Charash and Spector (2001), who concluded that the strongest link is between affective commitment and procedural justice, distributive and interactional justice, followed by continuance commitment that was related to procedural and interactional justice, and last but not least, normative commitment that was linked procedural justice. When it comes to the role that satisfaction has, when talking about organizational justice and organizational commitment, results vary. We know that satisfaction is linked to both constructs (Gillet, Colombat, Micinov, Pronost, & Fouquereau, 2013; Tang & Strasfield-Baldwin, 1996; Ma, Xing, Wang, & Chen, 2013; Tuszun, 2009; Patrick & Sonia, 2012; Kwantes, 2009) but most research that centers on all three concepts usually does not treat satisfaction as a mediator. In itself job satisfaction is among one of the most commonly measured constructs in industrial and organizational psychology and was tied to attendance at work (Mobely, 1977), decision to retire (Smiit & McCunde, 1981), turnover (Hom & Kincki, 2001) etc. Job satisfaction can be defined, according to Verecellino (2008), as a construct that refers to what people feel regarding their job, and the different modalities in which employees perceive their work as satisfactory or as unsatisfactory.

In those cases where job satisfaction is not treated as a mediator, usually the strongest link is established between distributive justice and satisfaction (Martin & Bennet, 1996; Lee, An Empirical Study of Organizational Justice as Mediator of the Relationship among Leader-Member Exchanges and Job Satisfaction, Organizational Commitment, and Turnover Intentions in the Lodging Industry, 2000) and procedural justice and commitment (McFarlin & Sweeney, 1992; Konovsky & Folger, 1989; Lee, 2000). However, when satisfaction is treated as a mediator, the reported results do not give a definitive answer regarding the strength of the mediation between the dimensions of organizational justice and the dimensions of organizational commitment. Crow at al. (2012) indicates that satisfaction is a better mediator between distributive justice and commitment, whilst the research of Fulford (2005), shows that satisfaction is a better mediator between procedural justice and commitment. It is worth mentioning that studies which would attempt to propose a model focusing on the relationship between the dimensions of organizational justice and the dimensions of organizational commitment mediated by job satisfaction are virtually nonexistent. A study that targets all previously mentioned concepts, minus normative commitment, was done by Darie (2011) in Romanian educational environment; however the study stops at finding correlations between them, reporting strong correlations between affective commitment and the dimensions of organizational justice (.48 in case of procedural justice and distributive justice, .47 in case of interactional justice, p<.01), followed by correlations between job satisfaction and the dimensions of organizational justice (.38 in case of distributive justice, p<.01 .26 in case of procedural justice p<.05 , .22 in case of interactional justice p<.05 ), and correlations between affective commitment and interactional commitment (.27, p<.05 )

Thus the objective of the present study is to suggest a more comprehensive model of the relation between organizational justice, organizational commitment mediated by job satisfaction.

The hypotheses of the study are:
Organizational Commitment, Organizational Justice and Work Satisfaction

H1. Job satisfaction will mediate the relationship between organizational justice and organizational commitment.
H2. Job satisfaction will mediate the relation between procedural justice and organizational commitment.
H3. Job satisfaction will mediate the relation between distributive justice and organizational commitment.
H4. Job satisfaction will mediate the relationship between interpersonal justice and organizational commitment.

Participants and Procedure

The study took place in two organizations one with 100% Romanian capital, and one that is the local branch of a major international corporation, both organizations focusing on manufacture. The studies were organized with the help of the management, participation was voluntary, anonymous, and special steps were taken to insure the privacy of the responses gathered. To versions of the questionnaires were administered. In case of the workforce the authors personally read the questions to groups of workers, and the participants marked their answers on a response sheet. In case of management full versions of the questionnaires were given which then were collected in a specially designed sealed ballot box opened only after the conclusion of the time allocated for the field study. Only the authors of the study have seen the response sheets and the questionnaires. The managements of the companies received only a statistical analysis of the end results. Sample sizes and sampling methodology was done according to the guidelines of Earl Babbie (2008).

The first organization (organization A) where study took place had at the time of the survey a total of 1100 employees of which approximately 1020 were active. The remaining 80 where absent due to maternity or sick leave, or their contracts were in process of termination, thus the representative sample was calculated was calculated according for 1000 employees with a confidence level of 95% and a confidence interval of ±4. This resulted in a sample of 375. The total number of questionnaires filled out by the employees was of 370.

The second organization (organization B) where the study took place had at the time of the survey a number of 1800 employees of which 1700 were active. The remaining 100 were absent due to maternity or sick leave or their contracts were in process of termination, thus the representative sample was calculated was calculated according for 1700 with a confidence level of 95% and a confidence interval of ±4. This resulted in a sample of 375. The total number of questionnaires filled out by the employees was of 350. Full sample size was not achieved due to time and production constrains that originated in the factory itself being understaffed thus having a considerable backlog that made achieving full sample size impossible.

The first organization is situated in Harghita county thus 94% of the people who took part in the study are Hungarian speaking, and the second study took place in the county of Brasov thus 93.3% of the people that took part in the study are Romanian speaking. The differences are also visible when it comes to religion which also reflects the cultural differences of the two populations. In the first case we have 79% Catholics, 4.3% Protestants 9% Greek Orthodox and 1.4% other confessional factions, and in the second case we have 86.9% Greek Orthodox, 6.4% Catholics, 2.7% Protestants and 4% other confessional factions. Differences can also be observed in the education of the populations but these are related to the specific activities of the two organizations.

Method

Participants and Procedure

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Measures

For measuring the concepts the present study used the Colquitt Organizational Justice Scale, Meyer and Alan Organizational Commitment Scale and Warr, Cook and Wall’s Job Satisfaction Scale.

The original Colquitt Organizational Justice Scale (2001) has 20 items that are evaluated on a Likert scale with scores between 1 (complete disagreement) and 7(complete agreement). However because of the scope of this research the subscale measuring interactional justice was expanded by including the interpersonal justice scale developed by Rocchi and Shanock (2006) that contains 4 items developed based upon Bies’s updated definition of the concept but also keeping Colquitt’s items measuring informational justice. The scale created by Colquitt is widely used to measure organizational justice for example: Cole, Berneth, Walter and Holt (2010), Scott and Colquitt (2007), Zapata-Phelan, Colquitt, Scott and Livingston (2009).

For measuring job satisfaction the P.Warr, J.Cook and T. Wall (1979) Scale was used, which in itself is part of a larger questionnaire that measures constructs like job motivation, life satisfaction, happiness etc. and of course job satisfaction. In this present case only the items regarding job satisfaction were used which contained 2 subscales measuring intrinsic and extrinsic motivation using a 7 point Likert scale. The scale was used in several studies a few examples being: Heritage, Pollock and Roberts (2015), Saksvik and Hetland (2011).

For measuring organizational commitment, the used scale was the updated Allen and Meyer (2004) Scale. All items were measured using a 7 point Likert scale. The scale uses three subscales measuring normative, affective and continuance commitment. The scale itself was used and adapted in several studies and context, like: Chang, Chi and Miao (2007) or Blau, Andersson, Davis, Daymont, Hocher, Kohziara, Portwood, and Holladay (2008).

Results

The first step in the analysis of the data was identification of outliers, process that was done according to the indications of Pallant (2005). A total of 50 (20 in the first organization, and 30 in the second organizations) questionnaires were identified as containing outliers, at all scales thus the decision was made to remove them from the data analysis.

For the analysis of the obtained data, we have used SPSS v.22 and AMOS v.22. When presenting the results of the analysis, the present paper uses the guidelines recommended by Pallant (2005), Howitt and Cramer (2010). Due to the fact that 95% of the employees were Hungarian speaking, the three scales had to be adapted, as no Hungarian versions of the questionnaires were found. Because of this, for all three scales we have done a confirmatory factor analysis through structural equation modeling. In case of the organizational justice scale our model, with 4 predetermined eigenvalues as suggested by theory, achieved statistical significance with an
In case of the Warr and Cook Job Satisfaction Scale both models had an $X^2 < .05$, but the three factor model had a RMSEA of .06 and a CFI of .88 and the two factor model had a RMSEA of .07 and a CFI of .84. The results with the three factor model are in line with those reported by Heritage and Pollock (2015) but the 2 factor model presented here obtained marginally better results than those of the previously mentioned authors (RMSEA .084, CFI .86). For the purpose of the present study we will only use the global job satisfaction score.

In case of the organizational commitment scale we predetermined 3 eigenvalues as suggested by theory. The model achieved statistical significance having $X^2=385.753$, p>.000, a RMSEA of .068, GFI of .884 and CFI of .868, which are in line with the results reported by Chang, Chi, Miao (2006).

All the aforementioned results are presented in Table 2 while internal consistency indices for the whole sample are presented in Table 3.

### Table 1. Descriptive statistics of sample (N=676)

| Category        | Organization 1 | Organization 2 | Total sample |
|-----------------|----------------|----------------|--------------|
| Age groups      |                |                |              |
| 20 or less      | 3.0            | 2.1            | 4.4          |
| 21-30           | 17.2           | 32.2           | 24.2         |
| 31-40           | 33.7           | 31.3           | 31.9         |
| 41-50           | 31.6           | 17.6           | 24.2         |
| 51-60           | 12.7           | 12.2           | 12.2         |
| 60 or more      | 1.8            | 4.6            | 3.1          |
| Gender          |                |                |              |
| Male            | 41.7           | 48.6           | 45.7         |
| Female          | 58.3           | 51.4           | 54.3         |
| Education       |                |                |              |
| Primary school  | 3.4            | 6              | 4.6          |
| Gymnasium       | 27.8           | 1.5            | 13.9         |
| Trade school    | 35.8           | 24.0           | 29.2         |
| High school     | 25.7           | 36.2           | 30.1         |
| University level education | 7.3 | 37.7 | 22.1 |
| Nationality     |                |                |              |
| Romanian        | 5.8            | 6.7            | 51.5         |
| Hungarian       | 94.2           | 93.3           | 48.5         |
| Religion        |                |                |              |
| Greek orthodox  | 9.0            | 86.9           | 47.0         |
| Catholic        | 79.7           | 6.4            | 47.2         |
| Protestant      | 4.3            | 2.7            | 3.6          |
| Other           | 1.4            | 4.0            | 2.7          |

### Table 2. Structural modeling results and internal consistency scale for the used scales

| Scale                                      | $X^2$ | df  | GFI | CFI | RMSEA |
|--------------------------------------------|-------|-----|-----|-----|-------|
| Colquitt Organizational Justice Scale      | 506.005 | 0.00 | 0.88 | 0.84 | 0.07  |
| Meyer and Allen Organizational Commitment | 385.753 | 0.00 | 0.88 | 0.86 | 0.06  |
| Warr & Cook 3 factor job satisfaction     | 236.832 | 0.00 | 0.9 | 0.88 | 0.06  |
| Warr & Cook 2 factor job satisfaction     | 240.342 | 0.00 | 0.9 | 0.91 | 0.07  |

Note: *p<.05, **p<.01.

### Table 3. Internal consistency indices

| Dimension                        | a coefficient |
|----------------------------------|---------------|
| Colquitt Organizational Justice  |               |
| Distributive justice             | .825          |
| Procedural justice               | .816          |
| Interpersonal justice            | .473          |
| Informational justice            | .846          |
| Total scale                      | .885          |
| Meyer and Allen Organizational Commitment | | |
| Normative commitment             | .714          |
| Affective commitment             | .701          |
| Continuance commitment           | .801          |
| Total scale                      | .874          |
| Warr & Cook Sources of Satisfaction Scale | | |
| Internal sources of satisfaction | .849          |
| External sources of satisfaction  | .810          |
| Total scale                      | .906          |

### Table 4. Means, standard deviations and interrelations of study variables

| MD    | SD    | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
|-------|-------|----|----|----|----|----|----|----|
| 1. Normative commitment | 4.29 | 1.35 | | | | | |
| 2. Affective commitment  | 4.39 | 1.44 | | | | | | |
| 3. Continuance commitment | 4.71 | 1.35 | | | | | | |
| 4. Total job satisfaction | 4.61 | 1.35 | | | | | | |
| 5. Distributive justice   | 4.97 | 1.43 | | | | | | |
| 6. Procedural justice     | 4.28 | 1.48 | | | | | | |
| 7. Interpersonal justice  | 4.23 | 1.32 | | | | | | |
| 8. Informational justice  | 5.37 | 1.59 | | | | | | |

Note: *p<.05, **p<.01.
Table 5. Model fit for evaluating the mediating role of total job satisfaction

| Model                                      | $X^2$ | $P$   | GFI  | CFI  | RMSEA |
|--------------------------------------------|-------|-------|------|------|-------|
| M1A: model with OJ and JS on the same level | 27.193 | <.01  | 0.979| 0.982| 0.077 |
| M1B: model with JS as mediator including IPJ | 12.738 | >.05(.254) | 0.997| 0.998| 0.021 |

Note: $p<.05$

Figure 1. M1A with OJ and JS on the same level

Figure 2. M1B with JS mediating the relation between OJ and OC

Figure 3. M1B with JS mediating the relation between OJ and OC (dimensions included)
Table 6. Standardized and unstandardized regression coefficients for model M2

|                          | Estimates | S.E. | P     | Standardized estimates |
|--------------------------|-----------|------|-------|------------------------|
| Total job satisfaction   | Informational justice | .31 | .02  | ** | .36 |
| Total job satisfaction   | Distributive justice | .12 | .03  | ** | .13 |
| Total job satisfaction   | Procedural justice | .28 | .03  | ** | .3 |
| Normative commitment     | Total job satisfaction | .5 | .03  | ** | .48 |
| Continuance commitment   | Total job satisfaction | .39 | .04  | ** | .35 |
| Affective commitment     | Total job satisfaction | .41 | .04  | ** | .41 |
| Continuance commitment   | Informational justice | .08 | .03  | .* | .09 |
| Normative commitment     | Procedural justice | .14 | .03  | ** | .15 |
| Continuance commitment   | Distributive justice | .08 | .03  | .* | .08 |
| Affective commitment     | Informational justice | .06 | .03  | .* | .07 |

Note: *p<.05, ** p<.01.

Table 7. Standardized total effects model M1B with upper and lower bounds

|                          | Procedural justice | Distributive justice | Informational justice | Job satisfaction |
|--------------------------|--------------------|----------------------|-----------------------|------------------|
| Job satisfaction         | .3(.24,.36)**      | .14(.07,.2)         | .36(.31,.43) **       | .00              |
| Continuance commitment   | .1(.08,.14)**      | .13(.07,.19)**      | .22(.15,.27) **       | .35(.27,.43)**   |
| Affective commitment     | .26(.20,.33)**     | .06(.03,.08)**      | .21(.12,.25) **       | .41(.31,.5) **   |
| Normative commitment     | .29(.24,.35)**     | .07(.03,.1)**       | .18(.12,.2) **        | .50(.42,.54) **  |

Note: **p<.01.

Table 8. Standardized direct effects model M1B with upper and lower bounds

|                          | Procedural justice | Distributive justice | Informational justice | Job satisfaction |
|--------------------------|--------------------|----------------------|-----------------------|------------------|
| Job satisfaction         | .3(.24,.36)**      | .13(.08,.2)**       | .36(.31,.43) **       | .00              |
| Continuance commitment   | .00                | .08(.03,.13)*       | .09(.02,.15) *        | .35(.27,.43) **  |
| Affective commitment     | .14(.07,.2) **     | .00                  | .07(.0,14) P>.05      | .41(.31,.5) **   |
| Normative commitment     | .15(.09,.2) **     | .00                  | .00                   | .48(.42,.54) **  |

Note: *p<.05, ** p<.01.

Table 9. Standardized indirect effects and statistical significance for Model M1B

|                          | Procedural justice | Distributive justice | Informational justice | Job satisfaction |
|--------------------------|--------------------|----------------------|-----------------------|------------------|
| Job satisfaction         | .00                | .00                  | .00                   | .00              |
| Continuance commitment   | .1(.08,.14)**      | .05(.2,.07) **       | .13(.09,.17) **       | .00              |
| Affective commitment     | .12(.09,.16)**     | .06(.03,.09)**       | .15(.1,.2) **         | .00              |
| Normative commitment     | .14(.11,.18)**     | .07(.03,.1)**        | .18(.14,.22) **       | .00              |

Note: *p<.05, ** p<.01.

Table 4 contains correlation estimates, construct means and standard deviations. The correlations between the 8 constructs are at the 0.01 level (2 tailed). Normative commitment is correlated with job satisfaction ($r=.396; p<.01$), distributive justice ($r=.206; p<.01$), procedural ($r=.373; p<0.01$) justice, interpersonal justice and informational justice ($r=.113; p<.01$). Affective commitment is correlated with job satisfaction ($r=.353; p<.01$), distributive justice ($r=.186; p<.01$), procedural justice ($r=.329; p<.01$), interpersonal justice ($r=.113; p<.01$) and informational justice ($r=.245; p<.01$). Total job satisfaction is correlated with distributive justice ($r=.520; p<0.01$), procedural ($r=.692; p<0.01$) justice, interpersonal justice ($r=.392; p<.01$) and informational justice ($r=.491; p<.01$).

The next step was structural equation modeling using AMOS. First we explored the relationship between organizational justice, job satisfaction, and organizational commitment. Because of the low $\alpha$ score obtained by the interpersonal justice sub scale the decision was made to eliminate it from the analysis. When constructing the model first we have started from exploring the relations between constructs according to theory. Using job satisfaction as mediator between justice and commitment can be considered unorthodox as most studies consider job satisfaction on the same structural level with commitment (Lee, 2000; Balchsi, Kumar, & Rani, 2009; Lambert, Hogan, & Griffin, 2007; Lowe & Vodanovich, 1995; Moorman, Niehoff, & Organ, 1993) with only a few using JS as a mediator (Fulford, 2005; Tang & StrasfieldDBaldwin, 1996; Crow, Lee, & Joo, 2012). To determine whether job satisfaction functions better as a mediator than a construct on the same structural level with commitment, two probable situations were analyzed, one in which the relation between organizational justice and organizational commitment is not mediated by job satisfaction (M1A.), and one in which job satisfaction mediates the relationship between the two constructs (M1B.).

Because model M1B had better statistical indices (see Table 5), it was concluded that for the present date total job satisfaction will fit better as a mediator thus confirming H1. After we have concluded that total job satisfaction is better as a mediator, we have set forth to explore the relations between the dimensions of the concepts.
To assert which relation between the dimensions of organizational justice and the dimensions of organizational commitment are better mediated total, indirect and direct effect scores were calculated, and then bootstrapping analysis was performed to check for statistical significance (Tables 7, 8 & 9).

The largest total effect as per model M1B can be observed between procedural justice and normative commitment (.29; .24; .35, p<.001). This relation is composed from a direct effect between procedural justice and normative commitment (.14; .07; .2, p<.001) and an indirect effect mediated by total job satisfaction (.14; .07; .2, p<.001). The total effect between procedural justice and affective commitment is of .12 (.09; .16; p<.001). This relation is composed from a direct relationship between procedural justice and affective commitment of .14 (.07; .2, p<.001) and an indirect effect of .15 (.1; .2, p<.001) mediated by total job satisfaction. In case of procedural justice the weakest effect can be observed between it and continuance commitment (.1; .08; .14 p<.001) which in this case is a relation completely mediated by total job satisfaction. As a result we can conclude that job satisfaction does mediate the path between procedural justice and all aspects of commitment, even though only in the case of continuance commitment can we observe full mediation thus we can state that H2 is confirmed.

In case of distributive justice and aspects of organizational commitment the strongest relation can be found between distributive justice and continuance commitment (.13; .07; .19 p<.001) which is composed of a direct effect (.08; .03; .13, p<.05) and an indirect effect mediated by total job satisfaction of .05 (.02; .07; p<.001). Concerning the relations between distributive justice and normative commitment and affective commitment we only have indirect effects mediated through total job satisfaction (distributive justice-normative commitment .07; .03; .1 p<.001; distributive justice and affective commitment .06; .03; .09; p<.001). As a result we can conclude that job satisfaction does mediate the relation between distributive justice and all aspects of commitment, path which in case of normative and affective commitment are fully mediated and in case of continuance commitment partially mediated, thus H3 is confirmed.

Because of the internal consistency issues regarding the interpersonal justice scale we were forced to dismiss H4.

In case of informational justice the largest total effect in our case was found between it and continuance commitment (.22; .15; .28 p<.001), composed of a direct effect of .09 (.02; .15 p<.05) and of an indirect effect mediated by total job satisfaction of .13 (.09; .17; p<.001). Between informational justice and affective commitment we have a total effect of .21 (.15; .29 p<.001), however in this case the direct effect between it and affective commitment fails to achieve statistical significance thus only the indirect effect of .15 (.1; .2; p<.001) mediated by total job satisfaction can be taken into consideration. Between informational justice and normative commitment we have only an indirect effect mediated by total job satisfaction of .18 (.14; .22; p<.001). As a result we can conclude that the relation between informational justice and commitment is also mediated by job satisfaction, where the path between it and continuance commitment is partially mediated, and the path between it and affective and normative commitment is fully mediated by job satisfaction thus H5 is confirmed.

Based upon model M1B and the results presented in table nr.11 we can state that there is also an unmediated path between procedural justice and affective commitment (.14; .07; .20; p<.001).

Discussion

In the current study we have focused on verifying the role of total job satisfaction as a mediator between organizational justice and organizational commitment. To establish job satisfaction as a mediator we have put forward two models, one in which job satisfaction is on the same level with organizational commitment and one in which it functions as a mediator between the two concepts. Based upon the results presented above we can state that our results offer support for the role of job satisfaction as mediator between organizational justice and organizational commitment. This is quite a new perspective as most previous studies situate job satisfaction not as a mediator but as a concept on the same structural level with organizational commitment (Lee, 2000; Bakshi, Kumar, & Rani, 2009; Lambert, Hogan, & Griffen, 2007; Lowe & Vodanovich, 1995; Moorman, Niehoff, & Organ, 1993) with only a few using JS as a mediator (Fullford, 2005; Tang & Strasfield-Baldwin, 1996; Crow, Lee, & Joo, 2012). In case of the studies where job satisfaction was treated as a mediator, Fullford’s targeted hotel employees in the United States, Tang, Strasfield and Baldwin’s was done on employed military veterans also in the United States and Crow, Lee and Joo’s had as subjects police officers in South Korea. In all three studies were job satisfaction was treated as a mediator organizational commitment was measured as an aggregate compared with the present study where emphasis was put on the relation between the dimensions of justice and commitment and the way this relation is mediated by job satisfaction. Also when it comes to the relation between organizational justice and job satisfaction, the results are similar with the conclusions of Cohen, Charash and Spector’s (2001) meta-analysis that states that organizational justice predicts all types of satisfaction.

However when trying to establish a link between the dimensions of organizational justice and organizational commitment, the mediation is not that clear cut, even though job satisfaction mediates the relation between all the six dimensions of the two concepts, we cannot dismiss the unmediated paths between the concepts presented in our model which are between procedural justice and normative commitment, procedural justice and affective commitment; distributive justice and continuance commitment; and informational justice and continuance commitment. The unmediated relationship found between procedural justice and affective commitment, further enforces the results of the meta-analysis of Cohen, Charash and Spector (2001).

The present model also signals the importance of researching the way in which the 3 dimensions of organizational justice supported by present data are linked through the mediation of job satisfaction to the 3 dimensions of organizational commitment, dynamics which to the best of our knowledge were previously unexplored by research. Thus in our case the strongest relation mediated by job satisfaction (not taking into consideration the direct effect) are between informational justice and normative commitment, informational justice and affective commitment, and by informational justice and continuance commitment. This is followed by the mediated path between procedural justice and normative
commitment, procedural justice and affective commitment and procedural justice and continuance commitment. The weakest mediated relations are between distributive justice and normative commitment, distributive justice and affective commitment and distributive justice and continuance commitment. These results occupy an intermediary position between the results of Fullford (2005) and those presented by Crow (2012) suggesting that in our case the strongest path mediated by job satisfaction is between interactional justice and commitment, however they also tend to agree with Fullford’s position as the second strongest mediation is between procedural justice and commitment. When looking at total effects in our case the strongest total effect can be observed between procedural justice and commitment (normative, affective and then continuance) followed by informational justice and commitment (continuance, affective and normative) and by distributive justice and commitment (continuance, normative and affective), these results being somewhat in line with the ones presented by the meta-analysis of Cohen Charash and Spector (2001), the differences being that in our case although as in the results presented by them, the relation between affective commitment and justice is the strongest the order differs, as based upon our data the most significant total effect was between it and informational justice followed by procedural justice. In our case the second most significant interaction between commitment an justice is between normative commitment and procedural justice, which although indicated by the meta-analysis is in our case more pregnant.

Further directions that can stem from the present study are to see what could be the origins of the reported variation regarding the way in which job satisfaction mediates the relationship between organizational justice and organizational commitment. There is evidence that personal experience (Clay Warner, Hegtvedt, & Roman, 2005; Lowe & Vodanovich, A Field study of Distributive and Procedural Justice As Predictors of Satisfaction and Organizational Commitment, 1995) can influence the way in which organizational justice relates to organizational commitment thus it wouldn’t be far fetched that the previously mentioned variation could also originate from personal experience and why not, the way one perceives his or her surrounding environment.

A methodological issue that arose was the failure to measure interpersonal justice in a statistically significant way by using the scale developed by Roch and Shanock (2006) because of the low α score (.47), thus this dimension had to be dropped from the data analysis. This failure in my opinion is not related to theoretical deficiency of the scale proposed but it has to do more with the personal nature of the questions and the unwillingness of the employees to answer truthfully.

Conclusions, limitations and future research directions

The obtained results according to the presented model suggest that three (H1, H2, H3) out of five hypothesis were confirmed, thus the present research is among a few that go a step beyond linking organizational justice to organizational commitment, not only enforcing the hypothesis that satisfaction is an important mediator between organizational justice and commitment, but also attempting to observe the way in which the dimension of the two concepts interact with each other. Because of this perspective the presented model was able to capture the fact that even thou satisfaction is an important mediator, not all aspects of organizational commitment were mediated by it.

As in case of all studies the present research has also limitations. The data collected is cross-sectional so causality cannot be established. Also, as McCallum at al. (1993) suggests, alternative models are possible that are indistinguishable from the proposed one; however, based on the presented results and theoretical evidence, we have confidence in the present results.

As a further direction of study we would propose the exploration of how certain personality factors would impact the formation of a certain configurations of organizational justice thus indirectly influence organizational commitment.

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