PREDICTING JOB SATISFACTION AND WORK ENGAGEMENT BEHAVIOR IN THE COVID-19 PANDEMIC: A CONSERVATION OF RESOURCES THEORY APPROACH

Marcela-Sefora Nemțeanu¹, Vasile Dinu², Rebeka-Anna Pop³, Dan-Cristian Dabija⁴

- Babeş-Bolyai University Cluj-Napoca, Faculty of Economics and Business Administration, Department of Marketing, Romania, ORCID: 0000-0002-7831-9041, sefora.sana@gmail.com;
- Bucharest University of Economic Studies, Faculty of Business and Tourism, Department of Business, Romania, ORCID: 0000-0003-3606-2548, dinu_cbz@yahoo.com;
- Babeş-Bolyai University Cluj-Napoca, Faculty of Economics and Business Administration, Department of Marketing, Romania, ORCID: 0000-0003-1498-0698, rebeka.pop@ubbcluj.ro;
- Babeş-Bolyai University Cluj-Napoca, Faculty of Economics and Business Administration, Department of Marketing, Romania, ORCID: 0000-0002-8265-175X, dan.dabija@ubbcluj.ro.

Abstract: The rapid spread of the COVID-19 pandemic has forced organizations to impose physical distancing restrictions on employees and to practice teleworking on a large scale. Adapting to the new context has generated an increase in job insecurity, and a decrease in employee productivity concerning task completion, boosting stress and counterproductive work behavior. Although the challenges employees face when carrying out their activities and work-related responsibilities, together with an understanding of the factors generating counterproductive work behaviors and job insecurity have been intensely studied in the literature, their manifestation and impact within organizations in the context of the COVID-19 pandemic is barely covered. This paper aims to fill this research gap by evaluating the way internal vision communication, employee reward systems, knowledge, and skills capitalization, and the maintaining of task performance can diminish counterproductive work behaviors and job insecurity generated by the COVID-19 pandemic, influencing employee satisfaction and behavior in this stress-inducing context. The responses collected from 863 Romanian employees are modelled with the help of structural equations in SmartPLS.

The results show that in the case of counterproductive work behavior, employee satisfaction diminishes, while efficient performance of tasks and responsibilities, knowledge and skills capitalization, internal vision communication, and the existence of an employee reward system for employee input can all generate greater organizational attachment. Job satisfaction mediates the influence of performance, internal marketing, and counterproductive work behavior in employees' attachment towards their respective organizations. The paper contributes to the development of the Conservation of Resources Theory, highlighting, in the context of the COVID-19 pandemic, ways in which employee satisfaction and work engagement behavior can be enhanced, thus contributing to diminishing counterproductive work behaviors, and fostering a pleasant and safe work environment.

Keywords: Job satisfaction, job insecurity, work engagement, COVID-19 pandemic, counterproductive work behavior.

JEL Codes: J24, J28, J53, L25, M12, M51, M53, M54.

APA Style Citation: Nemţeanu, M. S., Dinu, V., Pop, R. A., & Dabija, D. C. (2022). Predicting Job Satisfaction and Work Engagement Behavior in the COVID-19 Pandemic: A Conservation of Resources Theory Approach. *E&M Economics and Management*, 25(2), 23–40. https://doi.org/10.15240/tul/001/2022-2-002

2, XXV, 2022

Introduction

Since December 2019, the SARS-CoV-2 virus has spread rapidly on a global scale (WHO, 2021), strongly affecting organizations from all sectors of activity. Employees, in particular (ILO, 2020), have been forced to quickly alter their work behaviors and manner of working, being obliged to abandon commuting to the workplace and resort to large-scale remote working (Nemteanu et al., 2021a). The pandemic has made its strongest imprint on the sector of services (Fernandes, 2020), for whom teleworking has become 'the new normal' (Belzunegui-Eraso & Erro-Garcés, Nemţeanu & Dabija, 2021). This new context has dramatically altered task performance employee productivity having been strongly affected due to the time needed to adapt to the new reality and working conditions (Belzunegui-Eraso & Erro-Garcés, 2020). For many employees, the shift in paradigm has meant a change in individual job performance with some positive effects, such as attaining better work-family balance, and increased autonomy in task completion (Nemteanu et al., 2021a), but also with negative effects, namely job insecurity, counterproductive work behavior, increased uncertainty regarding job security, and diminished performance as a result of the lack of social interaction with peers and/or supervisors (Golden & Gajendran, 2019; Gassparo et al., 2020; Nemţeanu & Dabija, 2021).

Employee job insecurity directly and negatively affects job performance, thus negatively influencing work engagement (Wang et al., 2015; Gassparo et al., 2020; Mandrysz, 2020). To enhance employee job security, an organization has at its disposal several specific levers pertaining to internal marketing and human resource management; namely accurate and complete communication of organizational vision, strategies, and internal values (Foreman & Money, 1995; Swoboda & Batton, 2020) along with proper employee rewards (Mainardes et al., 2019). These two dimensions have proven to be fully effective, with direct implications on employee satisfaction and job security (De Gieter et al., 2010; Mainardes et al., 2019).

The Conservation of Resources Theory (COR) stems from the premise that it is in the interests of individuals to maintain, protect, and develop the resources they dispose of, and when these are threatened, they will experience

negative emotions (Xanthopoulou et al., 2009). At the same time, individuals will adopt behaviors to help them maintain these resources (Wright & Hobfoll, 2004). The Conservation of Resources Theory is often applied to research which targets stress situations among employees, as it allows for quick and easy identification of elements which bring about a positive effect on personal wellbeing, either by countering or eliminating such negative aspects; namely diminishing job insecurity (Striler et al., 2020), reducing counterproductive work behaviors (Xanthopoulou et al., 2009), or by enhancing positive ones - boosting employee job satisfaction (Jin et al., 2016), job performance (Wright & Hobfoll, 2004; McLarty et al., 2021), and increasing employee work engagement (Xanthopoulou et al., 2009), etc.

The aim of the research is to identify the way individual performance, knowledge and skills capitalization, internal vision communication, employee reward, and job insecurity due to the pandemic context influence job satisfaction and work engagement. The originality of the conducted research lies in the highlighting of the influence of knowledge and skill capitalization on employee job satisfaction and work engagement, and the reverse effect of developing counterproductive work behaviors on job satisfaction and work engagement. From a theoretical perspective, the paper contributes by proposing concrete ways of evaluating job insecurity generated by the COVID-19 pandemic, showing the implications of this concept on job satisfaction and work engagement.

The paper is structured as follows: based on the literature review, Section 1 presents the hypotheses and development of the conceptual model of analysis concerning internal marketing orientation within an organization, along with elements of human resource management, namely job satisfaction, work engagement, performance, knowledge and skills capitalization, internal vision communication, and employee reward system, and job insecurity. Section 2 is dedicated to the research design and context, highlighting the means of data collection and analysis. Section 3 presents the results and research discussion, and the last section contains theoretical and managerial contributions of the paper, along with limitations and research perspectives.

1. Hypotheses and Conceptual Model Development

Job Satisfaction and Employee Work Engagement

Job satisfaction is defined as a positive attitude (Spector, 1997; Zaharie et al., 2018) or positive emotion that employees develop regarding their activity (Singh & Das, 2013). This attitude reflects a high level of wellbeing which engenders heightened work engagement (Schaufeli, 2016). Job satisfaction is often considered an important and strong predictor of job performance (Platis et al., 2015; Hou et al., 2020; Nemteanu & Dabija, 2021), of employee work engagement towards the organization, of burnout alleviation (Zaharie et al., 2018), and of turnover intention (Zhang et al., 2020; Nemţeanu & Dabija, 2020). The problem of reducing the negative effects of intense work performed under stress and crisis situations has been approached through the lens of the Conservation of Resources Theory (COR) (Wright & Hobfoll, 2004; Jin et al., 2016). This allows identification of the factors that contribute to enhancing job satisfaction (Jin et al., 2016), employee work engagement (Xanthopoulou et al., 2009), and job performance (Wright & Hobfoll, 2004; McLarty et al., 2021), and which result in the reduction of job insecurity and/ or the elimination of counterproductive work behaviors (Striler et al., 2020).

Work engagement represents a form of heavy work investment and refers to the individual's dedication to organizational activities (Schaufeli et al., 2006, 2016; Bocean et al., 2020). Work engagement is manifested in vigor, absorption, and dedication towards work (Schaufeli et al., 2006; Reis et al., 2017). Previous research shows a strong positive link between work engagement and job satisfaction in the context of heavy work investment (Bocean et al., 2020; Popa et al., 2020; Nemteanu & Dabija, 2020). Through the lens of COR theory, employees are more invested in subsequent activities when they are content with the resources they dispose of within the organization (Xanthopoulou et al., 2009). Job satisfaction, the way in which an organization communicates with its employees, and also professional growth opportunities engender employee work engagement (Abraham, 2012; Håvold et al., 2021). For this reason, we assert that:

H₄: Employee job satisfaction determines employee work engagement.

1.2 Counterproductive Work Behavior

Conservation of Resources Theory highlights that in conditions that generate stress and job insecurity, employees tend to develop counterproductive work behaviors (Xanthopoulou et al., 2009), such engaging in negative discussions regarding the organization, criticizing co-workers or superiors, pointing out inexistent work issues, etc. (Koopmans et al., 2014), spending time meant for task completion unproductively on social media (Syrek, 2017), or engaging in potentially counterproductive activities towards the organization (Balducci et al., 2011; Shkoler et al., 2021). Of course, the more content employees are with the work done, the less counterproductive work behaviors they develop (Malhotra & Kathuria, 2017; Nemţeanu & Dabija, 2021). Conversely, employees who are dissatisfied with the work done tend to develop counterproductive work behaviors; for instance, negative conversations against the organization in the presence of co-workers (Shkoler et al., 2021). This diminishes their task performance efficiency (Guernaccia et al., 2018), they may be permanently discontented, and will engage less in carrying out duties and/or tasks (Syrek et al., 2017). Based on these arguments, we propose the following hypothesis:

H_{2a}: Counterproductive work behavior negatively influences employee job satisfaction.

The more engaged employees are in their assumed tasks and duties, the more counterproductive work behaviors will diminish (Balducci et al., 2011; Syrek et al., 2017). On the other hand, engaging in counterproductive work behaviors, such as spending time on nonwork-related social media leads to a decreased level of work engagement (Syrek et al., 2017). Therefore, we conclude that:

 H_{2h} : Employee job satisfaction mediates the influence of counterproductive work behavior on employee work engagement.

1.3 **Individual Job Performance: Task** Performance

Employee job performance can be measured by the extent to which work outcomes contribute to reaching organizational objectives (Viswesvaran & Ones, 2000). Organizational performance is determined by the degree of subsequent digitalization (Nagy et al., 2018), while investments in IT and digitalization directly influence organizational competitiveness (Oláh et al., 2019). Digital competence is essential for the task performance of employees; lack of skill may generate stress in contexts that imply remote work or the use of technological means (Nemţeanu & Dabija, 2021). In many contexts, job satisfaction is linked to enhancing employee performance in particular tasks (Platis et al., 2015; Nemțeanu & Dabija, 2021), but there are also situations in which it can diminish performance (Brown & Lent. 2005; Yang & Hwang, 2014). Typically, high performing employees will be positively evaluated by co-workers and superiors; they will be rewarded and enjoy peer recognition. They will subsequently be satisfied with their own results and content with their work (Brown & Lent, 2005; Bogler & Nir, 2015). Therefore, we propose the hypothesis:

 H_{3a} : Job performance influences employee job satisfaction.

Obtaining high performance from employees contributes to boosting self-esteem and efficiency in personal work. Performance that is evaluated positively leads to a high level of satisfaction and to employee wellbeing (Yang & Hwang, 2014). Employees who feel that they are achieving high performance will be even more satisfied and engaged in their work (Guarnaccia et al., 2018). Employees with a high level of job satisfaction tend to highlight increased work engagement (Abraham, 2012; Garg et al., 2017). Therefore, we consider that:

 \bar{H}_{3b} : Job satisfaction has a mediating effect between job performance and work engagement.

1.4 Knowledge and Skills Capitalization

The facilitating context for the development of knowledge and skills among employees is closely linked to task performance (Koopmans, 2013). In this manner, employees can contribute to smooth organizational running by finding creative and/or innovative solutions for existing tasks, and by readily assuming high-difficulty tasks (Koopmans et al., 2013). In cases of economic crisis, organizations can no longer offer employees the same opportunities for personal growth, or knowledge and skills capitalization (Vătămănescu et al., 2020; Jayathilake et al., 2021). When employees have the chance to update their knowledge and skills, contributing creatively to the betterment

of organizational performance, their job satisfaction increases (Hanaysha & Tahir, 2016; Popa et al., 2018). Therefore, we propose the hypothesis:

 H_{4a} : Knowledge and skills capitalization influence employee job satisfaction.

The link between work engagement and the context of updating employee knowledge and skills has been researched often, thus highlighting a strong and positive link between these concepts (Breevaart et al., 2015; Meyers et al., 2019). The possibility of being more efficient, of capitalizing knowledge and skills, and of being higher performing in the workplace will boost employee job satisfaction; therefore, they will engage more in their organizational duties and work (Guarnaccia et al., 2018). Based on these arguments, we propose the hypothesis:

H_{4b}: Job satisfaction mediates the link between knowledge and skills capitalization, and employee work engagement.

1.5 Internal Vision Communication and Reward System

Motivating employees and maintaining a high level of job satisfaction constitutes a true challenge for human resources managers (Zaharie et al., 2018). Within the internal marketing orientation, an organization may be preoccupied with its employees, considering them its clients (Foreman & Money, 1995; Ahmed et al., 2003), and taking care of their wellbeing, seeking out solutions to enhance job satisfaction and engagement in task completion, and enhancing the performance of their subsequent work-related duties (Shiu & Yu, 2009; Frye et al., 2019; Nemţeanu & Dabija, 2021). Within internal marketing, the organizational leadership must communicate their vision to employees, so that they can identify with the organization's purpose and/ or mission more easily (Foreman & Money, 1995). When employees are cognizant of the overall vision, they are more likely to believe in it, and identify with the organization's values; they tend to be more satisfied with their work (Testa, 1999; Mahmood & Ur Rehman, 2016), and more dedicated towards the organization (Albrecht, 2013). For this reason, we propose the hypothesis:

 H_{5a} : Internal vision communication enhances employee job satisfaction.

A vision with which employees agree and identify will facilitate their desire to support the organization, enhancing feelings of satisfaction towards their work-related responsibilities (Testa, 1999). The clarity of organizational vision, its orientation towards the future, its stability, and correct vision communication are important levers to enhance employee satisfaction (Mahmood & Ur Rehman, 2016). When employees are satisfied with their work, and the organization's vision is motivating and in accord with own aspirations and expectations concerning their development and/or employee career prospects, their work engagement in task completion and achieving objectives will increase (Albrecht, 2013). Therefore, we consider that:

 H_{5h} : Job satisfaction mediates the relation between internal vision communication and employee work engagement.

Those employees who contribute to vision implementation and organizational strategies must, of course, be rewarded (Foreman & Money, 1995; Ahmed et al., 2003). Any reward system must be based on fair and equitable ways of measuring employee performance (Kliestik et al., 2020) and the way they interact with their peers and/or supervisors in achieving organizational objectives and vision (Vătămănescu et al., 2020). The organization must constantly communicate to their employees their important role in vision achievement, to show them they are valued, and to constantly capitalize on their contribution, irrespective of how small that contribution may be (Foreman & Money, 1995; Nemţeanu & Dabija, 2021). Acknowledgement received by employees of work done and assumed responsibilities, along with fair reward for their performance generates satisfaction and boosts employee wellbeing (Chiang & Birtch, 2011; Bhardwaj et al., 2021; Thant & Chang, 2021). Therefore, we consider that:

H_{6a}: An employee reward system influences employee job satisfaction.

Employee wellbeing depends on the reward, but also on the way in which the reward is granted. When the reward system is not balanced, or when it does not acknowledge employee performance, job satisfaction and work engagement decrease (Ge et al., 2021). A proper reward system based on individual performance contributes decisively to smooth

organizational running (Foreman & Money, 1995; Nemteanu & Dabija, 2021). Content employees who are satisfied with their work, acknowledged for their merits, and properly rewarded will show enhanced engagement and dedication to their work (Hoole & Hotz, 2016). These arguments allow us to propose the hypothesis:

H_{6b}: Job satisfaction mediates the influence employee reward systems on engagement.

1.6 Job Insecurity Generated by COVID-19

Job insecurity consists of employees' worry regarding the possibility of integral or partial loss of their privileges, role, and position within the organization. Such an experience generates stress, anxiety, fear, and negative emotions (Wilson et al., 2020). In a threshold matter, such as an economic, social, or sanitary crisis, job insecurity increases accordingly among employees (Gasparro et al., 2020). This job insecurity is generated by lack of predictability concerning the safeguarding of one's job, forcing the employee to identify solutions and adapt to the new socio-economic context (Vander Elst et al., 2013). Personal risk may be influenced by changes in the nature and division of work (Oláh et al., 2019). This may lead to a decrease in job security. Job security positively influences job satisfaction (Bhardwaj et al., 2021), while lack of job security generates stress, with direct implications on employee results and behaviors, thus generating job dissatisfaction (Guarnaccia et al., 2018). Therefore, we assert that:

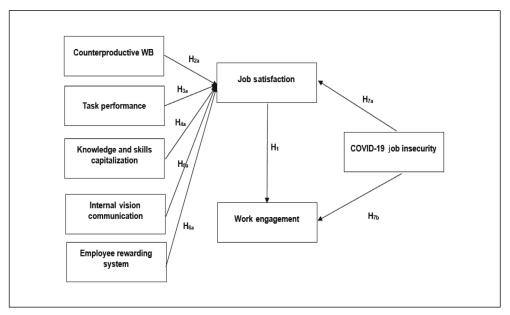
 H_{7a} : Job insecurity generated by the COVID-19 pandemic influences job satisfaction.

A work environment considered safe and secure from a psychological standpoint, and important for employees, depends mostly on the time and energy spent during task completion and assignation by their supervisors (Popa et al., 2020). If employees feel insecure regarding their job, they will engage even less in existing tasks, waiting expectantly, and showing only a moderate degree of self-efficacy in task completion (Guernaccia et al., 2018), thus also manifesting diminished work engagement (Debus & Unger, 2017; Karatepe et al., 2020). Therefore, we consider that:

 H_{7b} : Job insecurity generated by the COVID-19 pandemic influences work engagement.

Fig. 1:

Structural model



Source: own

Based on the literature review (De Gieter et al., 2010; Guarnaccia et al., 2018; Mainardes et al., 2019; Ge et al., 2021; Bhardwaj et al., 2021; Thant & Chang, 2021), and COR theory, we propose the conceptual model from Fig. 1, in which employee job satisfaction along with COVID-19 job insecurity directly influences work engagement, and mediates the influence of counterproductive work behavior, task performance, knowledge and skills capitalization, and dimensions of internal marketing (employee reward system and vision identification) together with employee engagement in their assigned work.

2. Research Methodology

This study proposes to examine the impact of job satisfaction on work engagement, and to explore the mediating role of job satisfaction between the antecedents, namely, counterproductive work behavior, task performance, knowledge and skills capitalization, internal marketing employee reward system, internal vision communication, and work engagement. The study outlines the impact of COVID-19 job insecurity on job

satisfaction and work engagement (Stevens, 2020; Lyons et al., 2021). It was conducted on an emerging market, namely, Romania, and justified from multiple perspectives: the literature investigating job satisfaction and work engagement in the emerging market context is scarce (Nemţeanu & Dabija, 2021); Romanian employees have practically the lowest net income in the European Union (Eurostat, 2020a); and Romanian employees' job satisfaction is below the European average (Eurostat, 2020b).

The questionnaire was developed according to existing scales in the literature, using a five-point Likert scale (total disagreement/total agreement). It was operationalized as follows (see Tab. 1): two dimensions for internal marketing scale (Foreman & Money, 1995); task performance, counterproductive work behavior, and knowledge and skills adapted items (Koopmans et al., 2013, 2014), one dimension for the overall scale of job satisfaction (MacDonald & MacIntyre, 1997), one dimension for work engagement (Schaufeli et al., 2006), and a self-made scale for COVID-19 generated insecurity (Lyons & Lăzăroiu, 2020; Morris, 2021; Nemțeanu et al., 2021b).

Scale reliability

Construct	Item	Measure	Loading	Cronbach's alpha	AVE/CR	
Job satisfaction	JSF1	I receive recognition for a job well done.	0.755	0.878	0.622/0.908	
MacDonald & MacIntyre, 1997	JSF2	I feel good about my job.	0.845			
	JSF3	I feel good about working in this company.	0.854			
	JSF4	I believe the management is concerned about me.	0.808			
	JSF5	All my talents and skills are used at work.	0.747			
	JSF6	I get along with my supervisors.	0.714			
Work engagement	WEN1	At my work, I feel bursting with energy.	0.832	0.871	0.660/0.906	
Schaufeli et al., 2006	WEN2	My job inspires me.	0.863			
	WEN3	When I get up in the morning, I feel like going to work.	0.854			
	WEN4	I feel happy when I am working intensely.	0.745			
	WEN5	I am proud of the work that I do.	0.760			
Counterproductive	CWB1	I made problems greater than they were at work.	0.737	0.800	0.619/0.866	
WB Koopmans et al., 2013	CWB2	I focused on the negative aspects of a work situation, instead of on the positive ones.	0.724			
2010	CWB3	I spoke with colleagues about the negative aspects of my work.	0.825			
	CWB4	I spoke with people from outside the organization about the negative aspects of my work.	0.853			
Task performance	TPF1	I managed to plan my work so that it was done on time.	0.823	0.791	0.613/0.863	
Koopmans et al., 2013	TPF2	My planning was optimal.	0.806			
	TPF3	I kept in mind the results that I had to achieve in my work.	0.764			
	TPF4	I was able to separate main issues from side issues at work.	0.734			
Knowledge and	CPF1	I worked at updating my job skills.	0.818	0.855	0.633/0.896	
skills capitalization Adapted after	CPF2	I came up with creative solutions to new problems.	0.788			
Koopmans et al.,	CPF3	I kept looking for new challenges in my job.	0.800			
2013	CPF4	I took on challenging work tasks.	0.748			
	CPF5	I worked at updating my job knowledge.	0.822			
Internal marketing:	IMV1	Our organization offers employees a vision that they can believe in.	0.838	0.855	0.777/0.912	
internal vision communication	IMV2	We communicate our organization's vision well to employees.	0.896			
Foreman & Money, 1995	IMV3	We place considerable emphasis in this organization on communication with our employees.	0.908			
Internal marketing: employee reward	IMR1	Our performance measurement and reward systems encourage employees to work together.	0.848	0.876	0.729/0.915	
system Foreman & Money, 1995	IMR2	Our organization measures and rewards employees' performance, which contributes most to our organization's vision.	0.852			
	IMR3	The organization has the flexibility to cope with differing needs of employees.	0.871			
	IMR4	Our organization communicates to employees the importance of their roles.	0.845			
COVID-19 job insecurity	COV1	During the COVID-19 pandemic, I felt I was directly affected by what concerns my job.	0.855	0.776	0.810/0.895	
Nemţeanu et al., 2021b	COV2	During the COVID-19 pandemic, I felt insecurity regarding my job stability.	0.944			

Source: own

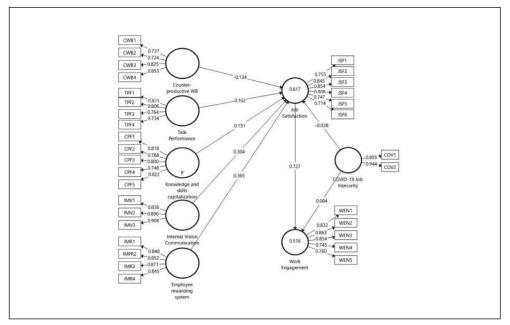
Business Administration and Management

The model was estimated with partial least squares-based structural equation modeling in SmartPLS 3.0 (Fig. 2). The data were analyzed using a two-step approach: firstly, the measurement model, to establish the reliability and validity of the operationalized measures, and secondly to validate the relationships among the latent constructs. Confirmatory factor analyses were conducted to assess the validity

and reliability of the outer model. Findings suggest the internal consistency of the model (Tab. 1) because all item loadings exceeded 0.7 (Hair et al., 2010); Cronbach alpha's is higher than 0.7 (Henseler & Sarstedt, 2013); all AVE (average variance extracted) values are below 0.5 (Chin, 1988); and CR (composite reliability) values are greater than 0.7 (Hair et al., 2010).

Fig. 2:

Structural model results



Source: own

According to the Fornell-Larcker (1981) procedure, for each latent variable AVE's value is higher than the correlation coefficient between the competent and all distinct variables (Tab. 2). We tested the inter-item collinearity with variance inflation factor (VIF). VIF values were ranged between 1.417−2.844, therefore the threshold of 3.3 is fulfilled (Diamantopoulos & Siguaw, 2006). The VIFs of the inner model were tested, the highest value is 2.728 (IMV→JSF), which indicates that there is no multicollinearity problem.

Based on exploratory research, this study employed a quantitative survey via an online questionnaire, implemented in the spring of 2020. The population of the study consisted of employees with valid work contracts in Romania. A total of 863 responses were obtained. Tab. 3 illustrates the socio-demographical data of the respondents.

3. Results

The bootstrap procedure was applied to assess the relationship between the latent variables. Based on t-statistics, all hypotheses were accepted (Tab. 4). Job satisfaction had a positive significant impact on work engagement ($\beta = 0.727$; T-value = 38.914; p < 0.001),

Discriminant validity analyses

Construct	cov	CWB	IMR	IMV	JSF	CPF	TPF	WEN
cov	0.900							
CWB	0.189	0.787						
IMR	-0.125	-0.239	0.854					
IMV	-0.163	-0.260	0.788	0.881				
JSF	-0.157	-0.346	0.703	0.696	0.789			
CPF	-0.015	-0.131	0.268	0.271	0.400	0.796		
TPF	-0.009	-0.184	0.210	0.219	0.347	0.513	0.783	
WEN	-0.030	-0.338	0.458	0.496	0.713	0.487	0.404	0.812

Source: own

Note: JSF: Job satisfaction; WEN: Work engagement; CWB: Counterproductive work behavior; TPF: Task performance; CPF: Knowledge and skills capitalization; IMV: Internal marketing: internal vision communication; IMR: Internal marketing: employee reward system; COV: COVID-19 job insecurity.

Tab. 3: Demographic characteristics of the respondents

Demogr	aphics (N = 863)	Frequency	Relative frequency %
	Generation X	275	31.9%
Generation	Generation Y	239	27.7%
	Generation Z	348	40.3%
Gender	Male	288	33.4%
Gender	Female	575	66.6%
	High school diploma	182	21.1%
Education level	Professional degree	48	5.6%
	Bachelor and master's degree	633	73.3%
	State company	202	23.4%
	National private company	236	27.3%
Organization type	Foreign private company	264	3.6%
	Own private company	98	11.4%
	Other	63	7.3%

Source: own

Note: JSF: Job satisfaction; WEN: Work engagement; CWB: Counterproductive work behavior; TPF: Task performance; CPF: Knowledge and skills capitalization; IMV: Internal marketing: internal vision communication; IMR: Internal marketing: employee reward system; COV: COVID-19 job insecurity.

therefore the more satisfied employees were with their job, the more engaged they were with the organization; thus, H_1 can be accepted. H_{2a} assumed that counterproductive work behaviors might have a significant influence on job satisfaction. The result ($\beta = -0.134$; T-value = 5.494; p < 0.001) indicates a negative significant effect between counterproductive

work behavior and job satisfaction, meaning that when workers focus more on the negative aspects of their job, this leads to weaker satisfaction, so H_{2a} can be accepted. H_{3a} presumed that task performance significantly influenced job satisfaction. The $(\beta = 0.102; \text{ T-value} = 3.277; p < 0.01) illustrate$ that task performance has a positive influence

Business Administration and Management

on job satisfaction; H_{3a} can be supported. The results (β = 0.151; T-value = 4.791; p < 0.001) indicate that knowledge and skills capitalization had a positive significant impact on job satisfaction; therefore, H_{4a} can be supported. Tab. 4 (β = 0.304; T-value = 7.294; p < 0.001) indicates that internal vision communication had a positive significant impact on job satisfaction; thus, H_{5a} can be accepted. According to the analyses (β = 0.365; T-value = 9.231; p < 0.001), employee reward systems had a strong positive impact on job satisfaction, meaning that compensation of employees and continuous communication with them led to high job satisfaction; H_{6a} is supported. The reward system had the strongest influence on employee satisfaction, followed by the internal vision communication. COVID-19 job insecurity negatively influenced job satisfaction $(\beta = -0.038; \text{ T-value} = 1.700; p < 0.1)$ and positively influenced work engagement $(\beta = 0.084; \text{ T-value} = 3.445; p < 0.01); \text{ therefore,}$ H_{7a} and H_{7b} can be supported.

satisfaction four Job had positive antecedents, task performance, employee reward system, internal vision communication, knowledge and skills capitalization, and and negative antecedent, namely, one counterproductive work behavior. Internal marketing employee reward systems had the strongest influence on job satisfaction. COVID-19 job insecurity positively influenced employee work engagement and negatively influenced employee job satisfaction. The fit statistics indicate an acceptable model; the squared root mean residual (SRMR) has a value of SRMR = 0.057 which fulfills the recommended criteria < 0.08. Counterproductive work behavior, task performance, internal marketing reward. internal marketing emplovee vision identification, knowledge and skills capitalization, and COVID-19 job insecurity explain 61.7% of the variance of job satisfaction $(R^2 = 0.617)$, while job satisfaction and COVID-19 job insecurity explain 51.6% of the variance of work engagement ($R^2 = 0.516$), defining a moderate predicting power of the structural model (Fig. 2).

The study also examined the mediating effect of job satisfaction (Tab. 5). The mediation analysis followed the three-step procedure recommended by Nitzl et al. (2016). The first step consists in determining the significance of the indirect effect (a*b), followed by determining the type of mediation (c'), and thirdly testing with the bootstrap method the significance of a*b. Tab. 5 indicates the negative and significant indirect effects of counterproductive work behavior on work engagement ($\beta = -0.102$); T-value = 5.875; p < 0.05); the indirect effect of task performance on work engagement $(\beta = 0.074; \text{ T-value} = 3.153; p < 0.05);$ knowledge and skills capitalization on work engagement (β = 0.108; T-value = 4.667; p < 0.05); internal vision communication on work engagement ($\beta = 0.225$; T-value = 7.236; p < 0.05) and employee reward systems on work engagement (β = 0.265; T-value = 9.443;

Tab. 4: The path coefficients of the structural equation model

Paths	Path coefficients	Standard deviation	T-value	P-value	Hypotheses
JSF→WEN	0.727	0.019	38.914	0.000***	H₁ – supported
CWB→JSF	-0.134	0.024	5.494	0.000***	H _{2a} – supported
TPF→JSF	0.102	0.031	3.277	0.001**	H _{3a} – supported
CPF→JSF	0.151	0.032	4.791	0.000***	H _{4a} – supported
IMV→JSF	0.304	0.042	7.294	0.000***	H _{5a} – supported
IMR→JSF	0.365	0.040	9.231	0.000***	H _{6a} – supported
COV→JSF	-0.038	0.022	1.700	0.089*	H_{7a} – supported
COV→WEN	0.084	0.024	3.445	0.001**	H _{7b} – supported

Source: own

Note: * p < 0.1; *** p < 0.01; *** p < 0.001; JSF: Job satisfaction; WEN: Work engagement; CWB: Counterproductive work behavior; TPF: Task performance; KSC: Knowledge and skills capitalization; IMV: Internal marketing: internal vision communication; IMR: Internal marketing: employee reward system; COV: COVID-19 job insecurity.

Test of mediation Tab. 5:

Independent		endent (Pa	diation: Direct effects nt (Path coefficients) WEN Total effect Met		Method	Type of mediation	Hypotheses	
/mediator	а	b	a*b	T-value	С	VAF		
CWB	-0.141	0.727	-0.102	5.875	-0.102	0.5	Partial mediation	H _{2b} – supported
TPF	0.101	0.727	0.074	3.153	0.074	0.5	Partial mediation	H _{3b} – supported
KSC	0.149	0.727	0.108	4.667	0.108	0.5	Partial mediation	H _{4b} – supported
IMV	0.310	0.727	0.225	7.236	0.225	0.5	Partial mediation	H _{5b} – supported
IMR	0.364	0.727	0.265	9.443	0.265	0.5	Partial mediation	H _{6b} – supported

Source: own

Note: JSF: Job satisfaction; WEN: Work engagement; CWB: Counterproductive work behavior; TPF: Task performance; KSC: Knowledge and skills capitalization; IMV: Internal marketing: internal vision communication; IMR: Internal marketing: employee reward system; COV: COVID-19 job insecurity.

p < 0.05) are positive and significant, so, H_{2b} , H_{3b} , H_{4b} , H_{5b} , and H_{6b} are supported. The ratio of the indirect-to-total effect was calculated, indicating that all VAF values were greater than 20% and less than 80%, job satisfaction being considered as a partial mediator between counterproductive work behavior, task performance, employee reward system and internal vision communication, knowledge and skills capitalization, and work engagement.

4. Discussion

The influence of job satisfaction on work engagement is positive and strong ($\beta = 0.727$; T-value = 38.914; p < 0.001), which has been observed by Abraham (2012), and Håvold et al. (2021). Abraham (2012) concludes that job satisfaction represents an antecedent to work engagement. Håvold et al. (2021) demonstrate that among 137 workers employed in Norwegian and Finnish public hospitals, the influence of job satisfaction on work engagement is positive and significant (β = 0.45; p < 0.001). Satisfied employees show increased work engagement, will invest more in their activity, will be more energetic, dedicated, and committed, and will strive to complete their assigned tasks. Counterproductive work behavior generates job dissatisfaction ($\beta = -0.134$; T-value = 5.494; p < 0.001) and dissatisfaction concerning work engagement with assigned duties ($\beta = -0.102$; T-value = 5.875; p < 0.05), as confirmed by Syrek et al. (2017), Guarnaccia et al. (2018), and Shkoler et al. (2020). Counterproductive

work behavior, for instance time spent on personal matters such as social media, reduces job satisfaction and, according to Malhotra and Kathuria (2017), diminishes employee work engagement, leading to decreased interest regarding smooth organizational running (Syrek et al., 2017). Task performance positively influences job satisfaction ($\beta = 0.102$; T-value = 3.277; p < 0.01); this result is explained by the fact that employees who feel high-performing and engaged in task completion as compared to their peers, if properly rewarded, will feel more satisfied with the work done (Yang & Hwang, 2014; Bogler & Nir, 2015). Job performance significantly and positively influenced the job satisfaction $(\beta = 0.26; p < 0.01)$ of 360 employees within the banking, financial, IT, and security and insurance sector in Taiwan (Yang & Hwang, 2014). Job performance has a positive effect on employee work engagement, and a positive mediating effect on job satisfaction ($\beta = 0.074$; T-value = 3.153; p < 0.05). Basically, a high level of task performance will increase employee job satisfaction. Employees with high performance during task completion will be more engaged in subsequent work and are likely to feel more satisfisfaction (Garg et al., 2017; Guarnaccia et al., 2018).

The increase in job satisfaction is enhanced by an increased level of knowledge and skills capitalization (β = 0.151; T-value = 4.791; p < 0.001). This gives employees the possibility to update their knowledge and to creatively contribute to the identification of the best solutions to problems, and to take on supplementary responsibilities, so that they contribute even more to smooth organizational running (Koopmans et al., 2013). The direct influence of knowledge and skills capitalization on job satisfaction has not been previously tested. The result of this research (β = 0.151; T-value = 4.791; p < 0.001) is conceptually in agreement with studies that highlight a positive impact of employee development opportunities in generating job satisfaction (Yang & Hwang, 2014; Hanaysha & Tahir, 2016; Jayathilake et al., 2021). The mediating role of job satisfaction between knowledge and skills capitalization and work engagement (β = 0.108; T-value = 4.667; p < 0.05) has been verified by Breevaart et al. (2015) and Meyers et al. (2019), who observed that work engagement determines a favorable context for the activation of obtained knowledge and skills.

The existence of an internal system to reward employees (β = 0.365; T-value = 9.231; p < 0.001) has been associated with an increase in job satisfaction. These results agree with similar studies, which demonstrate the importance of acknowledging and rewarding employees, increasing their job satisfaction, and obtaining positive results (Chiang & Birtch, 2011; Hoole & Hotz, 2016; Bhardwaj et al., 2021; Thant & Chang, 2021). The implications reward systems in enhancing work engagement were the research focus of Hoole and Hotz (2016) among 318 employees from public institutions, revealing a positive link, but reduced in intensity (r = 0.25; p < 0.05), wherein the work rewards accounted for only 12% of total work engagement (Hoole & Hotz, 2016).

Internal vision communication exerts a strong direct and positive influence on job satisfaction (β = 0.304; T-value = 7.294; p < 0.001) and on work engagement through the means of satisfaction (β = 0.225; T-value = 7.236; p < 0.05). Mahmood and Rehman (2016) demonstrated within a research project among 314 managers from Pakistan, that a vision properly communicated to the personnel is a strong determinant of job satisfaction (β = 0.656; T-value = 2.196; p < 0.000). Our results confirm Testa's (1999) research indicating the positive influence of organizational vision properly communicated to employees on perceived job satisfaction and work engagement (Albrecht, 2013).

Job insecurity generated by COVID-19 is understood as employee negative emotion (Gassparo et al., 2020), which, according to the results, contributes to reduced job satisfaction $(\beta = -0.038; \text{ T-value} = 1.700; p < 0.1), in accord$ with previous research results (Guarnaccia et al., 2018; Bhardwaj et al., 2021). Job insecurity in the context of COVID-19 is associated with an increase in work engagement ($\beta = 0.084$; T-value = 3.445; p < 0.01). The result is surprising, and original compared to previous research conducted in a pre-pandemic context, since it disagrees with Guarnaccia et al. (2018), who highlight the unfavorable impact of job insecurity on work engagement. The results are also in line with the Conservation of Resources Theory which posits that under stressful conditions such as job insecurity, employees act to retain and protect their resources and put more effort into generating those resources (Wright & Hobfoll, 2004). Employees who feel threatened by the possible or actual loss of these resources are likely to act towards maintaining those (Striler et al., 2020). Work engagement is a variable characterized by a higher dedication to work, the employee being absorbed by work objectives and tasks (Schaufeli et al., 2016). In this case, in the face of threatened job losses, our results reveal that employees are more dedicated to generating resources, a fact that confirms Conservation of Resources Theory assumptions (Striler et al., 2020), even if job insecurity diminishes job satisfaction. This situation may have occurred out of the necessity to keep one's job during the COVID-19 pandemic (Cramarenco & Burcă-Voicu, 2021), employees being willing to invest more in their work, since the prospect of finding another job quickly is not great, as many economic sectors have limited their activities.

Conclusions

The paper expands on the research based on the Conservation of Resources Theory by identifying positive factors which generate job satisfaction and work engagement within a new stress-generating context, namely the COVID-19 pandemic. Among these vectors with beneficial effects are rewarding employees for their efforts towards task completion, internal vision communication, enhancing job satisfaction, and knowledge and skills capitalization, which together bring about greater positive organizational outcomes. The

paper approaches, in an original manner, the impact of counterproductive work behavior on job satisfaction and employee work engagement with their organization, highlighting the scarcely studied links in the literature concerning the influence of task performance and knowledge and skills capitalization on job satisfaction and work engagement. In addition, the research takes on a new dimension, COVID-19 job insecurity, a new construct developed by the authors based on the possibility of job loss and lack of job security due to the pandemic.

From a managerial perspective, the paper offers organizational decision-makers resorting to teleworking and counterproductive work behaviors during lockdown possible ways to understand the factors which directly determine employee job satisfaction, and which allow an increase in organizational engagement for the smooth running of assumed duties and given tasks.

The obtained results show, concurrently, that internal marketing orientation (internal vision communication, employee rewards) plays an important role in increasing job satisfaction in the context of the COVID-19 pandemic. The existence of a performance-based employee reward system within the organization, along with the acknowledgement of employee merits is carefully and profoundly analyzed by the literature, as it has proven its efficacy, especially in the context of the COVID-19 pandemic. Organizational vision corroborated by clear and exact communication to employees constitute another relevant vector of internal marketing, exerting a positive influence on job satisfaction and work engagement. Basically, in a context marked by crisis, stress, and uncertainty, it is increasingly important for employee emotional wellbeing that they manage to identify with the organization to which they pertain, and even more, relate favorably to it. Assumed tasks will hence be easier to achieve, especially in the context of teleworking, physical distancing, and social isolation.

The COVID-19 pandemic has generated job insecurity in various work sectors because, due to lockdown restrictions, their activity has been halted or has suffered major changes employees have been laid off or in technical unemployment. Only in some work sectors have there been happier cases in which employees can work remotely, i.e., through teleworking. The results obtained in this study highlight the negative effects of job insecurity on job satisfaction in the context of COVID-19. The lack of job security often generates not only job dissatisfaction, but also diminished work engagement. However, compared with the literature, the obtained results highlight that job insecurity due to COVID-19 has encouraged employees to be even more engaged in and/or committed to the smooth running of assumed responsibilities. This unexpected situation may be explained by the desire to maintain their job, since changing jobs amid the pandemic is difficult to do, and the prospects of obtaining a job that is better paid or with lighter responsibilities are uncertain.

Among the research limitations, is the fact that the respondents came from a single emerging economy, and there has been no comparative analysis of situations from the various sectors of activity. At the same time, among the limitations, is the fact that in the conceptual model elaborated, only some determining dimensions of job satisfaction and work engagement have been considered in the context of the COVID-19 pandemic. Constructs such as stress, burnout, anxiety, self-regulatory capacity, efficacy, productivity, and adaptation to change have not been considered. Future research might include these gaps and consider the impact of teleworking on counterproductive work behavior and/or on job satisfaction perceived by employees in the context of the COVID-19 pandemic. The new situation engendered by this destructive virus has imposed a reconfiguration of employee activities, and especially a replacement of the classical paradigm which involved shifting from physical movement to the office to teleworking, but also entailed the learning and quick adaptation to digital instruments and innovative methods when completing and performing tasks. Future research will have to take into consideration the evaluation of the impact of digitalization and the use of modern means of communication when conducting work-related activities, corroborating them with job satisfaction and work engagement perceived by employees.

Acknowledgment: This work was possible with the financial support of 1. Operational Program Human Capital 2014-2020, under the project number POCU 123793 entitled "Researcher, future entrepreneur - New Generation", and 2. "Romanian Ministry of Education and Research. CNCS-UEFISCDI, project number PN-III-P1-1.1-TE-2019-1356, within PNCDI III".

References

Abraham, S. (2012). Job satisfaction as an antecedent to employee engagement. *SIES Journal of Management*, *8*(2), 27–36.

Albrecht, S. L. (2013). Work Engagement and the Positive Power of Meaningful Work. In A. B. Bakker (Ed.), *Advances in Positive Organizational Psychology* (Vol. 1, pp. 237–260). Bingley: Emerald Group Publishing. https://doi.org/10.1108/S2046-410X(2013)0000001013

Ahmed, P. K., Rafiq, M., & Saad, N. M. (2003). Internal marketing and the mediating role of organisational competencies. *European Journal of Marketing*, 37(9), 1221–1241. https://doi.org/10.1108/03090560310486960

Balducci, C., Schaufeli, W. B., & Fraccaroli, F. (2011). The job demands–resources model and counterproductive work behaviour: The role of job-related affect. *European Journal of Work and Organizational Psychology, 20*(4), 467–496. https://doi.org/10.1080/13594321003669061

Belzunegui-Eraso, A., & Erro-Garcés, A. (2020). Teleworking in the Context of the Covid-19 Crisis. *Sustainability*, *12*(9), 3662. https://doi.org/10.3390/su12093662

Bhardwaj, A., Swati, M., & Trilok, K. J. (2021). An analysis to understanding the job satisfaction of employees in banking industry. *Materials Today: Proceedings*, *37*(2), 170–174. https://doi.org/10.1016/j.matpr.2020.04.783

Bocean, C. G., Vărzaru, A. A., Băndoi, A., & Sitnikov, C. S. (2020). Transversal Analysis of Predictors, Moderators and Related Effects of HWI. *Amfiteatru Economic*, 22(Special Issue No. 14), 973–992. https://doi.org/10.24818/ea/2020/s14/973

Bogler, R., & Nir, A. E. (2015). The contribution of perceived fit between job demands and abilities to teachers' commitment and job satisfaction. *Educational Management Administration & Leadership*, 43(4), 541–560. https://doi.org/10.1177/1741143214535736

Breevaart, K., Bakker, A. B., Demerouti, E., & van den Heuvel, M. (2015). Leadermember exchange, work engagement, and job performance. *Journal of Managerial Psychology*, 30(7), 754–770. https://doi.org/10.1108/JMP-03-2013-0088

Brown, S. D., & Lent, R. W. (2005). Career Development and Counseling: Putting Theory and Research to Work. Hoboken, NJ: John Wiley.

Chiang, F. F. T., & Birtch, T. A. (2011). Reward climate and its impact on service quality orientation and employee attitudes. *International*

Journal of Hospitality Management, 30(1), 3–9. https://doi.org/10.1016/j.ijhm.2010.03.007

Chin, W. W. (1998). The partial least squares approach for structural equation modeling. In G. A. Marcoulides (Ed.), *Modern Methods for Business Research* (pp. 295–336). London: Lawrence Erlbaum Associates Publisher.

Cramarenco, R. E., & Burcă-Voicu, M. (2021). Resilient Universities in Pandemic Times. The Case of Babeş-Bolyai University, Romania. *Journal of Regional Science*, *15*(2), 1–14.

Debus, M. E., & Unger, D. (2017). The interactive effects of dual-earner couples' job insecurity: Linking conservation of resources theory with crossover research. *Journal of Occupational and Organizational Psychology*, 90(2), 225–247. https://doi.org/10.1111/joop.12169

De Gieter, S., De Cooman, R., Pepermans, R. G., & Jegers, M. (2010). The Psychological Reward Satisfaction Scale: developing and psychometric testing two refined subscales for nurses. *Journal of Advanced Nursing*, 66(4), 911–922. https://doi.org/10.1111/j.1365-2648.2009.05199.x

Diamantopoulos, A., & Siguaw, J. A. (2006). Formative Versus Reflective Indicators in Organizational Measure Development: A Comparison and Empirical Illustration. *British Journal of Management*, 17(4), 263–282. https://doi.org/10.1111/j.1467-8551.2006.00500.x

Eurostat. (2020a). Estimated labour Costs 2019. Retrieved April 28, 2020, from https://ec.europa.eu/eurostat/statistics-explained/index.php/Wages_and_labour_costs

Eurostat. (2020b). Satisfaction with job by country. Retrieved April 28, 2020, from https://ec.europa.eu/eurostat/statistics-explained/index.php?title=File:Satisfaction_with_job_by_country, 2013.png

Fernandes, N. (2020). Economic Effects of Coronavirus Outbreak (COVID-19) on the World Economy (Working Paper No. WP-1240-E). Barcelona: IESE Business School. https://doi.org/10.2139/ssrn.3557504

Foreman, S. K., & Money, A. H. (1995). Internal Marketing: Concepts, Measurement, and Application. *Journal of Marketing Management*, *11*(8), 755–768. https://doi.org/10.1080/0267257X.1995.9964388

Fornell, C., & Larcker, D. F. (1981). Structural Equation Models with Unobservable Variables and Measurement Error: Algebra and Statistics.

Journal of Marketing Research, 18(3), 39-50. https://doi.org/10.1177/002224378101800313

Frye, W. D., Kang, S., Huh, C., & Lee, M. J. (2019). What factors influence Generation Y's employee retention in the hospitality industry? An internal marketing approach. International Journal of Hospitality Management, 85, 102352. https://doi.org/10.1016/j.ijhm.2019.102352

Garg, K., Dar, I. A., & Mishra, M. (2017). Job Satisfaction and Work Engagement: A Study Using Private Sector Bank Managers. Advances in Developing Human Resources, 20(1), 58-71. https://doi.org/10.1177/1523422317742987

Gasparro, R., Scandurra, C., Maldonato, N. M., Dolce, P., Bochicchio, V., Valletta, A., Sammartino, G., Sammartino, P., Mariniello, M., Espedito di Lauro, A., & Marenzi, G. Perceived Job Insecurity (2020).Depressive Symptoms among Italian Dentists: The Moderating Role of Fear of COVID-19. International Journal of Environmental Research and Public Health, 17(15), 5338. https://doi.org/10.3390/ijerph17155338

Ge, J., He, J., Liu, Y., Zhang, J., Pan, J., Zhang, X., & Liu, D. (2021). Effects of effortreward imbalance, job satisfaction, and work engagement on self-rated health among healthcare workers. BMC Public Health, 21, 195. https://doi.org/10.1186/s12889-021-10233-w

Golden, T. D., & Gajendran, R. D. (2019). Unpacking The Role of a Telecommuter's Job in Their Performance: Examining Job Complexity, Problem Solving, Interdependence, and Social Support. Journal of Business and Psychology. 34(1), 55-69. https://doi.org/10.1007/s10869-018-9530-4

Guarnaccia, C., Scrima, F., Civilleri, A., & Salerno, L. (2018). The Role of Occupational Self-Efficacy in Mediating the Effect of Job Insecurity on Work Engagement, Satisfaction and General Health. Current Psychology, 37(3), 488-497. https://doi.org/10.1007/s12144-016-9525-0

Hair, J. F., Black, W. C., & Babin, B. J. (2010). Multivariate Data Analysis: A Global Perspective. Pearson Education.

Hanaysha, J., & Tahir, P. R. (2016). Examining of the Effects **Employee** Empowerment, Teamwork, and **Employee** Training on Job Satisfaction. Procedia – Social and Behavioral Sciences, 219, 272–282. https:// doi.org/10.1016/j.sbspro.2016.05.016

Håvold, O. K. S., Håvold, J. I., & Glavee-Geo, R. (2021). Trust in leaders, work satisfaction and work engagement in public hospitals. International Journal of Public Leadership, 17(2), 145-159. https://doi.org/10.1108/IJPL-07-2020-0061

Henseler, J., & Sarstedt, M. (2013). Goodness-of-fit indices for partial least squares path modeling. Computational Statistics, 28(2), 565-580. https://doi.org/10.1007/s00180-012-0317-1

Henseler, J., Ringle, C. M., & Sinkovics, R. R. (2009). The use of partial least squares path modeling in international marketing. In R. R. Sinkovics, & P. N. Ghauri (Eds.), New Challenges International Marketing (Advances to International Marketing) (Vol. 20, pp. 277-319). Bingley: Emerald Group Publishing, https://doi. org/10.1108/S1474-7979(2009)0000020014

Hoole, C., & Hotz, G. (2016). The impact of a total reward system of work engagement. SA Journal of Industrial Psychology, 42(1), a1317. https://doi.org/10.4102/sajip.v42i1.1317

Hou, J., He, Y., Zhao, X., Thai, J., Fan, M., Feng, Y., & Huang, L. (2020). The effects of job satisfaction and psychological resilience on job performance among residents of the standardized residency training: a nationwide study in China. Psychology Health & Medicine, 25(9), 1-13. https://doi.org/10.1080/13548506. 2019.1709652

ILO. (2020). ILO Monitor: COVID-19 and the World Work (5th ed). Retrieved August 10, 2021, from https://www.ilo.org/wcmsp5/groups/ public/@dgreports/@dcomm/documents/ briefingnote/wcms_749399.pdf

Jayathilake, H. D., Daud, D., Eaw, H. C., & Annuar, N. (2021). Employee development and retention of Generation-Z employees in the post-COVID-19 workplace: a conceptual framework. Benchmarking: An International Journal, 28(7), 2343-2364. https://doi.org/10.1108/BIJ-06-2020-0311

James, K., & Lahti, K. (2011). Organizational Vision and System Influences on Employee Inspiration and Organizational Performance. Creativity and Innovation Management, 20(2), https://doi.org/10.1111/j.1467-8691. 108-120. 2011.00595.x

Jin, M. H., McDonald, B., & Park, J. (2016). Person-Organization Fit and Turnover Intention: Exploring the Mediating Role of Employee Followership and Job Satisfaction through Conservation of Resources Theory. Review of Public Personnel Administration, 38(2), 167-192. https://doi.org/10.1177/0734371x16658334

Karatepe, O. M., Rezapouraghdam, H., & Hassannia, R. (2020). Job insecurity, work engagement and their effects on hotel employees' non-green and nonattendance behaviors. *International Journal of Hospitality Management*, 87, 102472. https://doi.org/10.1016/j.ijhm.2020.102472

Kliestik, T., Valaskova, K., Nica, E., Kovacova, M., & Lăzăroiu, G. (2020). Advanced Methods of Earnings Management: Monotonic Trends and Change-Points under Spotlight in the Visegrad Countries. *Oeconomia Copernicana*, 11(2), 371–400. https://doi.org/10.24136/oc.2020.016

Koopmans, L., Bernaards, C. M., Hildebrandt, V. H., van Buuren, S., van der Beek, A. J., & de Vet, H. C. W. (2013). Development of an individual work performance questionnaire. *International Journal of Productivity and Performance Management*, 62(1), 6–28. https://doi.org/10.1108/17410401311285273

Koopmans, L., Bernaards, C. M., Hildebrandt, V. H., van Buuren, S., van der Beek, A. J., & de Vet, H. C. W. (2014). Improving the individual work performance questionnaire using Rasch analysis. *Journal of Applied Measurement*, *15*(2), 160–175. https://doi.org/10.1136/oemed-2013-101717.51

Lyons, N., & Lăzăroiu, G. (2020). Addressing the COVID-19 Crisis by Harnessing Internet of Things Sensors and Machine Learning Algorithms in Data-driven Smart Sustainable Cities. *Geopolitics, History, and International Relations, 12*(2), 65–71. https://doi.org/10.22381/GHIR12220209

Lyons, N., Birtus, M., & Cug, J. (2021). Sustained Psychological Distress, Acute Depression, and Emotional Exhaustion in Frontline Medical Staff and Nurses Working with COVID-19 Patients. *Psychosociological Issues in Human Resource Management*, 9(1), 99–108. https://doi.org/10.22381/pihrm91202110

Macdonald S., & MacIntyre P. (1997). The Generic Job Satisfaction Scale. *Employee Assistance Quarterly*, *13*(2), 1–16. https://doi.org/10.1300/J022v13n02_01

Mainardes, E. W., Rodrigues, L. S., & Teixeira, A. (2019). Effects of internal marketing on job satisfaction in the banking sector. *International Journal of Bank Marketing*, 37(5), 1313–1333. https://doi.org/10.1108/IJBM-07-2018-0190

Malhotra, M., & Kathuria, K. (2017). Relationship between spiritual intelligence,

job satisfaction and counterproductive work behavior among employees of multinational companies in India. *Journal of Psychosocial Research*, 12(2), 315–323.

Mahmood, S., & Ur Rehman, A. (2016). Impact of Effective Vision Attributes on Employee Satisfaction. *International Journal of Economics & Management Sciences*, 5(2), 1000315. https://doi.org/10.4172/2162-6359.1000315

Mandrysz, W. (2020). Community-Based Social Economy – Social Capital and Civic Participation in Social Entrepreneurship and Community Development. *Management Dynamic in the Knowledge Economy, 8*(1), 81–93. https://doi.org/10.2478/mdke-2020-0006

McLarty, B. D., Muldoon, J., Quade, M., & King, R. A. (2021). Your boss is the problem and solution: How supervisor-induced hindrance stressors and LMX influence employee job neglect and subsequent performance. *Journal of Business Research*, 130, 308–317. https://doi.org/10.1016/j.jbusres.2021.03.032

Meyers, M. C., Kooij, D., Kroon, B., de Reuver, R., & van Woerkom, M. (2019). Organizational Support for Strengths Use, Work Engagement, and Contextual Performance: The Moderating Role of Age. *Applied Research Quality Life*, *15*, 485–502. https://doi.org/10.1007/s11482-018-9702-4

Morris, K. (2021). Smart Biomedical Sensors, Big Healthcare Data Analytics, and Virtual Care Technologies in Monitoring, Detection, and Prevention of COVID-19. *American Journal of Medical Research*, 8(1), 60–70. https://doi.org/10.22381/ajmr8120216

Nagy, J., Oláh, J., Erdei, E., Máté, D., & Popp, J. (2018). The Role and Impact of Industry 4.0 and the Internet of Things on the Business Strategy of the Value Chain – The Case of Hungary. *Sustainability*, *10*(10), 3491. https://doi.org/10.3390/su10103491

Nemţeanu, M. S., & Dabija, D. C. (2020). The Influence of Heavy Work Investment on Job Satisfaction and Turnover Intention in Romania. *Amfiteatru Economic, 22*(Special Issue No. 14), 993–1013. https://doi.org/10.24818/EA/2020/S14/993

Nemţeanu, M. S., & Dabija, D. C. (2021). The Influence of Internal Marketing and Job Satisfaction on Task Performance and Counterproductive Work Behavior in an Emerging Market during the COVID-19 Pandemic. International Journal of Environmental Research

and Public Health, 18(7), 3670. https://doi. org/10.3390/ijerph18073670

Nemţeanu, M. S., Dabija, D. C., & Stanca. L. (2021a). The Influence of Teleworking on Performance and Employee's Counterproductive Behaviour. Amfiteatru Economic, 601-619. https://doi. 23(58), org/10.24818/EA/2021/58/601

Nemţeanu, M. S., Dinu, V., & Dabija, D. C. (2021b). Job Insecurity, Job Instability, and Job Satisfaction in the Context of the COVID-19 Pandemic. Journal of Competitiveness, 13(2), 65-82. https://doi.org/10.7441/joc.2021.02.04

Nitzl, C., Roldan, J. L., & Cepeda, G. (2016). Mediation analysis in partial least squares path modeling: Helping researchers discuss more sophisticated models. Industrial Management & Data Systems, 116(9), 1849-1864. https://doi. org/10.1108/IMDS-07-2015-0302

Oláh, J., Karmazin, G., Pető, K., & Popp, J. (2018). Information technology developments of logistics service providers in Hungary. International Journal of Logistics Research and Applications, 21(3), 332–344. https://doi.org/10. 1080/13675567.2017.1393506

Oláh, J., Virglerova, Z., Popp, J., Kliestikova, J., & Kovács, S. (2019). The Assessment of Non-Financial Risk Sources of SMES in the V4 Countries and Serbia. Sustainability, 11(17), 4806. https://doi.org/10.3390/su11174806

Platis, C., Reklitis, P., & Zimeras, S. (2015). Relation between Job Satisfaction and Job Performance in Healthcare Services. Procedia – Social and Behavioral Sciences, 175, 480-487. https://doi.org/10.1016/j.sbspro.2015.01.1226

Popa, I., Stefan, S. C., Morărescu, C., & Cicea, C. (2018). Research regarding the Influence of Knowledge Management Practices on Employee Satisfaction in the Romanian Healthcare System. Amfiteatru Economic, 20(49), 553-566. https:// doi.org/10.24818/EA/2018/49/553

Popa, I., Ștefan, S. C., Albu, C. F., Popa, Ş. C., & Vlad, C. (2020). The Impact of National Culture on Employees' Attitudes Toward Heavy Work Investment: Comparative Approach Romania vs. Japan. Amfiteatru Economic, 22(Special Issue 14), 1014-1029. https://doi. org/10.24818/EA/2020/S14/1014

Reis, D., Hoppe, A., Arndt, C., & Lischetzke, T. (2017). Time pressure with state vigour and state absorption: Are they nonlinearly related? European Journal of Work and Organizational Psychology, 26(1), 94-106. https://doi.org/10.1 080/1359432X.2016.1224232

Sarstedt, M., Ringle, C. M., & Hair, J. F. (2017). Partial Least Squares Structural Equation Modeling. In C. Homburg, M. Klarmann, & A. Vomberg (Eds.), Handbook of Market Research Cham: Springer. 1-40). https://doi. org/10.1007/978-3-319-05542-8 15-1

Schaufeli, W. B. (2016). Heavy work investment, personality, and organizational climate. Journal of Managerial Psychology, 31(6), 1057-1073. https://doi.org/10.1108/JMP-07-2015-0259

Schaufeli, W. B., Bakker, A. B., & Salanova, M. (2006). The Measurement of Work Engagement with a Short Questionnaire: A Cross-National Study. Educational and Psychological Measurement, 66(4), 701-716. https://doi.org/10.1177/0013164405282471

Shkoler, O., Tziner, A., Vasiliu, C., & Ghinea, C. N. (2020). Are Positive and Negative Outcomes of Organizational Justice Conditioned by Leader-Member Exchange? Amfiteatru Economic, 23(56), 240-258. https:// doi.org/10.24818/EA/2021/56/240

Shiu, Y.-M., & Yu, T.-W. (2009). Internal marketing, organisational culture, iob satisfaction, and organisational performance in non-life insurance. The Service Industries Journal, 30(6), 793-809. https://doi.org/10.1080/ 02642060701849840

Singh, R., & Das, G. (2013). The impact of job satisfaction, adaptive selling behaviors and customer orientation on salesperson's performance: exploring the moderating role of selling experience. Journal of Business & Industrial Marketing, 28(7), 554-564. https:// doi.org/10.1108/jbim-04-2011-0121

Spector, P. E. (1997). Job Satisfaction. Thousand Oaks, CA: SAGE Publications.

Stevens, A. (2020). Gender Differences in COVID-19 Sentiments, Attitudes, Habits, and Behaviors: An Empirical Research. Journal of Research in Gender Studies, 10(2), 95-105. https://doi.org/10.22381/JRGS10220205

Striler, J., Shoss, M., & Jex, S. (2020). The Relationship between Stressors of Temporary Work and Counterproductive Work Behavior. Stress and Health, 37(2), 329-340. https://doi. org/10.1002/smi.2998

Swoboda, B., & Batton, N. (2020). Cross-national roles of perceived reputation dimensions for MNCs. International Marketing Review, 37(6), 1051-1081. https://doi. org/10.1108/IMR-07-2019-0180

Syrek, C. J., Kühnel, J., Vahle-Hinz, T., & De Bloom, J. (2017). Share, like, twitter, and connect: Ecological momentary assessment to examine the relationship between non-work social media use at work and work engagement. *Work & Stress*, *32*(3), 209–227. https://doi.org/10.1080/02678373.2017.1367736

Testa, M. R. (1999). Satisfaction with organizational vision, job satisfaction and service efforts: an empirical investigation. Leadership & Organization Development Journal, 20(3), 154–161. https://doi.org/10.1108/01437739910268424

Thant, Z. M., & Chang, Y. (2021). Determinants of Public Employee Job Satisfaction in Myanmar: Focus on Herberg's Two Factor Theory. *Public Organization Review*, *21*, 157–175. https://doi.org/10.1007/s11115-020-00481-6

van Beek, I., Taris, T. W., Schaufeli, W. B., & Brenninkmeijer, V. (2014). Heavy work investment: Its motivational make-up and outcomes. *Journal of Managerial Psychology*, *29*(1), 46–62. https://doi.org/10.1108/JMP-06-2013-0166

Vander Elst, T., De Witte, H., & De Cuyper, N. (2013). The Job Insecurity Scale: A psychometric evaluation across five European countries. *European Journal of Work and Organizational Psychology*, 23(3), 364–380. https://doi.org/10.1080/1359432x.2012.745989

Vătămănescu, E. M., Alexandru, V. A., Mitan, A., & Dabija, D. C. (2020). From the Deliberate Managerial Strategy towards International Business Performance: A Psychic Distance vs. Global Mindset Approach. *Systems Research and Behavioral Science*, *37*(2), 374–387 https://doi.org/10.1002/sres.2658

Viswesvaran, C., & Ones, D. S. (2000). Perspectives on Models of Job Performance. *International Journal of Selection and Assessment*, *8*(4), 216–226. https://doi.org/10.1111/1468-2389.00151

Walker, S. (2017). The volatile human: Moderating effects on job satisfaction after job redesign. *Academy of Business Research Journal*, 3, 28–43.

Wang, H.-J., Lu, C.-Q., & Siu, O.-I. (2015). Job insecurity and job performance: The

moderating role of organizational justice and the mediating role of work engagement. *Journal of Applied Psychology, 100*(4), 1249–1258. https://doi.org/10.1037/a0038330

WHO. (2021). Coronavirus (COVID-19). Retrieved February 2, 2021, from https://covid19.who.int

Wilson, J. M., Lee, J., Fitzgerald, H. N., Oosterhoff, B., Sevi, B., & Shook, N. J. (2020). Job Insecurity and Financial Concern During the COVID-19 Pandemic Are Associated with Worse Mental Health. *Journal of Occupational and Environmental Medicine*, 62(9), 686–691. https://doi.org/10.1097/jom.000000000000001962

Wright, T. A., & Hobfoll, S. E. (2004). Commitment, Psychological Well-Being and Job Performance: An Examination of Conservation of Resources (COR) Theory and Job Burnout. *Journal of Business & Management*, 9(4), 389–406.

Xanthopoulou, D., Bakker, A. B., Demerouti, E., & Schaufeli, W. B. (2009). Reciprocal relationships between job resources, personal resources, and work engagement. *Journal of Vocational Behavior*, 74(3), 235–244. https://doi.org/10.1016/j.jvb.2008.11.003

Yang, C.-L., & Hwang, M. (2014). Personality traits and simultaneous reciprocal influences between job performance and job satisfaction. *Chinese Management Studies*, 8(1), 6–26. https://doi.org/10.1108/CMS-09-2011-0079

Zaharie, M., Kerekes, K., & Osoian, C. (2018). Employee Wellbeing in Health Care Services: The Moderating Role of Job Satisfaction on the Relationship between Burnout and Turnover. *Managerial Challenges of the Contemporary Society*, 11(2), 124–133.

Zhang, X., Bian, L., Bai, X., Kong, D., Liu, L., Chen, Q., & Li, N. (2020). The influence of job satisfaction, resilience and work engagement on turnover intention among village doctors in China: a cross-sectional study. *BMC Health Services Research*, 20, 283. https://doi.org/10.1186/s12913-020-05154-0