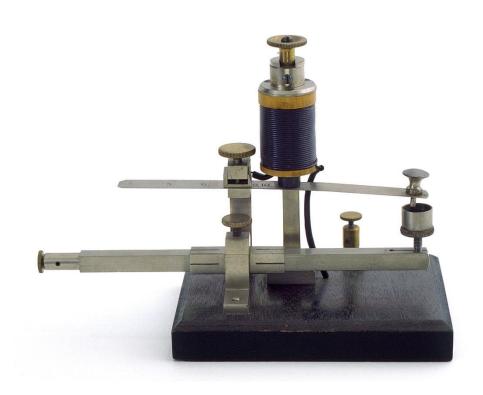
PROCEEDINGS OF THE XXVIII SCIENTIFIC CONFERENCE

EMPIRICAL STUDIES IN PSYCHOLOGY

31st MARCH – 3rd APRIL, 2022 FACULTY OF PHILOSOPHY, UNIVERSITY OF BELGRADE



INSTITUTE OF PSYCHOLOGY LABORATORY FOR EXPERIMENTAL PSYCHOLOGY FACULTY OF PHILOSOPHY, UNIVERSITY OF BELGRADE

EMPIRICAL STUDIES IN PSYCHOLOGY

31st MARCH – 3rd APRIL, 2022 FACULTY OF PHILOSOPHY, UNIVERSITY OF BELGRADE



Institute of Psychology, Faculty of Philosophy, University of Belgrade



Laboratory for Experimental Psychology, Faculty of Philosophy, University of Belgrade

Belgrade, 2022

PROGRAMME COMMITTEE

prof. dr Orlando M. Lourenço

prof. dr Claus-Christian Carbon prof. dr Agostini Tiziano

prof. dr Lucia Tramonte

prof. dr Maria do Céu Taveira

prof. dr José M. Peiró

prof. dr Gonida Sofia-Eleftheria

prof. dr Laurie Beth Feldman

prof. dr Joana Maria Mas

doc. dr Milica Vukelić

doc. dr Ivana Stepanović Ilić

dr Zora Krnjaić

prof. dr Dejan Todorović

prof. dr Sunčica Zdravković

prof. dr Iris Žeželj

doc. dr Danka Purić

prof. dr Zvonimir Galić

prof. dr Dušica Filipović Đurđević

prof. dr Slobodan Marković

prof. dr Ksenija Krstić

prof. dr Dražen Domijan

doc. dr Oliver Tošković

doc. dr Olja Jovanović

doc. dr Dobrinka Kuzmanović

doc. dr Bojana Bodroža

doc. dr Ivana Jakovljev

doc. Dragan Janković

prof. dr Pavle Valerjev

prof. dr Denis Bratko

prof. dr Petar Čolović

doc. dr Jelena Matanović

dr Janko Međedović

doc. dr Marija Branković

dr Anja Wertag

dr Jelena Radišić

doc. dr Dragana Stanojević

doc. dr Maja Savić

dr Nataša Simić

dr Maša Popović

dr Darinka Anđelković

prof. dr Tamara Džamonja Ignjatović

doc. dr Kaja Damnjanović

dr Marko Živanović

dr Maša Vukčević Marković

prof. dr Goran Opačić

prof. dr Aleksandar Kostić

dr Zorana Zupan

dr Marina Videnović (chairwoman)

ORGANIZING COMMITTEE

dr Marina Videnović prof. dr Slobodan Marković prof. dr Dušica Filipović Đurđević Olga Marković Rosić doc. dr Ivana Stepanović Ilić Ksenija Mišić Milana Rajić dr Marko Živanović doc. dr Kaja Damnjanović dr Nataša Simić Teodora Vuletić Anđela Milošević Ana Avramović Natalija Ignjatović Milica Ninković Jovan Ivanović

EDITORS

dr Marina Videnović, naučni saradnik dr Nataša Simić, viši naučni saradnik doc. dr Ivana Stepanović Ilić doc. dr Kaja Damnjanović, naučni saradnik Milana Rajić, istraživač saradnik

Cover photo:

Spring-loaded switch, (E. Zimmermann, Leipzig-Berlin) from Collection of old scientific instruments, Laboratory for Experimental Psychology, Faculty of Philosophy, University of Belgrade

Proofreading and layout: Teodora Vuletić

CONTENTS

COGNITIVE PSYCHOLOGY		10
Do higher-level chess players rely on heuristics in general as well as in chess problem solving? Antolčić, Valerjev	11	
Adaptive memory: The effect of danger signal frequency on word retention Dragosavljević, Gotić, Dimitrijević, Damjenić	14	
Confident and with good reason? Relationship between judgment of task-solving ability and final judgment of confidence on syllogistic reasoning tasks Damnjanović, Bajšanski, Damnjanović	17	
Does time pressure make us illogical? Ilić, Mišić, Damnjanović	20	
Is there a difference in the stroop effect in latin and cyrillic words? Borojević, Dimitrijević	23	
The effect of color, expectation and gender on sweet taste perception Blažanović, Borojević	26	
Towards an accessible assessment of reasoning: The relation of statistical reasoning and classic reasoning task performance <i>Valerjev, Dujmović</i>	29	
CLINICAL PSYCHOLOGY		33
Factor structure and psychometric properties of the Croatian version of the Information technology anxiety scale in a student sample Pedić Duić	34	
Family functioning and negative experiences in the Covid-19 pandemic as predictors of subjective wellbeing Gvozden, Vukosavljević-Gvozden, Peruničić-Mladenović	37	
Different impacts of stressful life events on the occurrence of myocardial infarction in men and women Vlašić, Ivanišević	40	

PERSONALITY PSYCHOLOGY		43
Personality traits, life satisfaction, and negative emotional states: Gender differences and the Dark Triad <i>Wertag</i>	44	
The path to the 'happily ever after': The role of love styles in the quality of the relationship <i>Ilić</i> , <i>Mihajlović</i>	48	
Development and validation of the Scepticism towards science scale Vučković, Radaković, Moskovljević, Dojčinović, Žujović, Marković	51	
Adverse childhood experiences and the dimensions of the moral foundations theory Karić, Budiša, Petković, Pušić, Subotić	55	
PSYCHOLOGY OF EDUCATION		59
Differences in the level of expression of positive attitude towards inclusion between educators and students of vocational studies for educators <i>Petrović</i>	60	
What came first? Exploring directions of influence among academic emotions, mathematics identity and achievement Blažanin, Radišić, Krstić	63	
Learning strategies during Covid-19 pandemic: How well do they predict school achievement and how do they differ in classroom and remote-learning situation? Damnjanović, Mojović Zdravković, Vranješević	67	
Students' perception of teaching practices and parents' educational status as predictors of students' self-efficacy in televised instruction <i>Plazinić</i>	70	
Opinions of students, professors, and parents about online teaching in high schools during the first wave of the Covid-19 pandemic <i>Keleman, Subotić</i>	73	
Students' experiences of the effectiveness of the teaching process during the shortened live school classes following the online teaching phase of the Covid-19 pandemic <i>Marić</i> , <i>Subotić</i>	76	

WORK PSYCHOLOGY		79
Relation between job demands, job resource and work engagement of healthcare workers during the Covid-19 pandemic <i>Đurić</i> , <i>Mirković</i>	80	
Supportive leadership and affective organizational commitment: Moderating role of organizational justice Mirković	84	
DEVELOPMENTAL PSYCHOLOGY		87
"We just wanted to go out, have a drink, meet everyone, hug" – youth narratives about life during the pandemic <i>Krstić</i> , <i>Nikitović</i> , <i>Ninković</i>	88	
The experience of coming out process of the lesbian, gay and bisexual youth in Serbia <i>Milić</i>	92	
Alone together: Youth and their relationships during the Covid-19 pandemic <i>Vuletić</i> , <i>Ignjatović</i>	94	
How do adolescents perceive their intelligence? Correlates of self-estimated intelligence in personality and intelligence domains <i>Manojlović</i>	97	
Early childhood development stimulation: One way of measuring <i>Rajić, Videnović, Krstić, Stepanović Ilić</i>	100	
PSYCHOLOGY OF ART		104
Dance performance anxiety – "the dizziness of freedom" Vukadinović	105	
Contemporary and hip hop dance choreographies: The differences in observers' physical experience Vukadinović	108	

SOCIAL PSYCHOLOGY

Attitudes towards vaccination against Covid-19 among Roma people from Belgrade's substandard settlements Simunović, Milutinović	112
Will this cost us votes? Voting preferences in light of public support of the preventive measures <i>Lep</i>	115
The mediating and the moderating role of civic orientations in promoting youth civic participation <i>Lep, Zupančič</i>	118
Stigma regarding menstrual products and helping behaviour: An observational study Osmani, Vasilijević, Protić, Rašić, Pajković	121
Facebook reactions to Milena Radulović's rape accusation – a content analysis of rape myths and victim support Osmani, Protić, Pajković, Vasilijević, Rašić	124
Public reactions to rape in the case of Daniela Steinfeld – the reinforcement of rape myths Pavlović, Radaković, Vučković, Moskovljević, Urošević	127

EDUCATION SYMPOSIA INVITED LECTURES		130 131
Professional identity development narratives of class and subject teachers Stojković	132	
A person-centered perspective on future preschool and class teachers' values in terms of the Schwartz refined value theory Marušić Jablanović	138	
Teachers' motivation and skills for technology use in teacher inquiries <i>Saar</i>	142	
Motivation for a teaching profession among preservice subject teachers Simić	145	
Actors influencing collaboration in assistive technology use in preschool and school institutions: Involvement of educators Anđelković	151	
INVITED LECTURE		155
The use of transcranial direct current stimulation (tDCS) in the research of cognitive functions Živanović	156	

A Person-Centered Perspective on Future Preschool and Class Teachers' Values in Terms of the Schwartz Refined Value Theory

Milica Marušić Jablanović (milica.m.jablanovic@gmail.com)

Institute for Educational Research, Belgrade Faculty of Philosophy, University of Belgrade

Abstract

Values are desirable goals, motivators to action, they function as criteria for our judgements, and decision making. The goal of the study is to identify types of preservice preschool and class teachers, according to their values, through secondary analyses of previously obtained data. The study (N-232) applies PVQ (Portrait Value Questionnaire)-57, measuring the 19 values of the Schwartz refined theory. A four-cluster solution was accepted, and the obtained clusters were placed on the adaptive-maladaptive continuum, starting from Selftranscendent cluster with socially focused members. respecting highly the welfare of others, compliance with norms and smooth functioning in social Uncritical&Respect-seeking cluster tends to rate higher variety of values, with value Face standing out. Self-Enhancing cluster distinguishes by higher appreciation of Self-enhancement values, such as achievement and power. Members can be interested for the success of their students, but opt for dominance and prefer self-indulging. Indifferent cluster was placed closer to the maladaptive pole, due to lower appreciation of nature protection and equality, justice and protection for all people, and risk of being unmotivated.

Keywords: Schwartz refined theory, Serbia, cluster analyses

Theoretical Framework

Values are used to explain the motivational bases of human attitudes and behaviour and to recognize specificities of societies or individuals and to follow the course of change of these specificities over time (Schwatrz, 2006). In order to understand the choices people make, their lifestyle and preferences it is necessary to learn their values. In case of teachers it is especially important, since they have the pleasure and the responsibility of upbringing generations of children. Their influence of values can be reflected in: the attention they attribute to different parts of the curriculum, relative to the characteristics of their students, and in the goals they define for their students and the expectations they have from the students (Ennis, 1992).

Schwartz's theory of basic human values identifies ten values that people in all cultures distinguish, and determines their compatibilities and conflicts. The refined model recognizes smaller clusters of values within the basic ones, offering a 19 values model. This model has been confirmed in 15 samples from 10 countries (Schwartz et al., 2012). Its predictive validity was confirmed by finding the correlation between values and corresponding behaviours (Schwartz & Butenko, 2014).

Methodology

The present study contains secondary analysis of the data obtained in 2018 (Marušić Jablanović, 2018). The instrument applied was the PVQ-RR questionnaire (Schwartz, 2016), designed for measuring the 19 values of the refined model. Results confirm that PVQ-RR reproduces well the proposed structure of the 19 values (Schwarz & Cieciuch, 2022). The items consist of a statement, briefly describing beliefs typical for a certain value. The respondent needs to estimate how much he resembles the person described in the statement, on a 6-point scale, where 1 means "Not like me at all", and 6 "Very much like me" offering their own self-portraits 1.

The author of the present study tested the Schwartz model on a sample of 232 students, future preschool and class teachers (Marušić Jablanović, 2018). The data fitted well the theoretical model, the location of values obtained in the study corresponded to that predicted by the cicrumplex (with the exception of Universalism and Benevolence, that were in reversed order). Several values that are adjacent in the model were combined in the empirical data. The value hierarchy starts with Benevolence-care and ends with Power-resources.

Goal of the present study is to find types of the preservice preschool and class teachers, according to their values, through secondary analyses of previously obtained data. The analyses included K-means cluster analysis on the basis of the 19 values ratings. The author tested 2 to 5 clusters solutions, applied ANOVA with Games-Howell post-hoc test for mutual comparison of ratings of the 19 values. The four-cluster solution was accepted applying the criteria: number of iterations until stability, significance of ANOVA and the size of the obtained clusters. Then after, repeated measures ANOVA for comparing the ratings within each cluster was applied. The ANOVAs were performed on centered value scores, according to the authors' suggestions (Schwartz, 2016).

¹ Sample item. It is important to him to listen to people who are different from him. Even when he disagrees with them, he still wants to understand them (Universalism-tolerance). (https://wiki.mgto.org/doku.php/portrait_value_questionnaire_pvq)

Results

Clusters' means and significant differences among them are presented in Table 1

Table 1: The 4 Clusters Value ratings AM, and significant differences in value ratings between the 4 clusters.

	Cluster 1, 12%	Cluster 2, 30%	Cluster 3, 32%	Cluster 4, 26%	Differences between Clusters
Self- direction thought	5,22	4,00	4,87	5,01	2<1,3,4; 1>3
Self- direction action	5,40	4,56	5,07	5,07	1>2,3,4; 2<3,4
Stimulation	4,62	3,28	3,94	4,32	1>3; 2<1,3,4
Hedonism	5,11	3,21	3,71	4,79	1,4>2,3
Achievement	5,42	3,96	4,68	5,05	1>4>2,3
Power	3,05	2,02	1,76	2,55	1,4>2,3
dominance Power resources	2,86	1,75	1,67	2,44	1,4>2,3
Face	5,09	2,96	3,83	3,75	1>3,4>2
Personal	5,50	4,45	4,97	4,92	1>3,4>2
security Social security	5,16	2,33	4,56	3,76	1>3>4>2
Tradition	4,72	3,38	4,78	3,93	2<1,4<3
Conformity rules	4,71	3,14	4,50	3,36	1,3>2,4
Conformity interpersonal	4,76	3,39	4,56	3,38	1,3>2,4
Universalism nature	4,67	2,95	4,57	3,79	1,3>2,4
Universalism concern	5,44	4,12	5,16	4,62	1,3>2,4
Universalism tolerance	5,20	4,37	5,14	4,45	1,3>2,4
Benevolence care	5,78	5,07	5,63	5,47	1>2,4;3>2
Benevolence dependability	5,67	5,01	5,61	5,38	1,3>2,4

- Cluster 1 named Uncritical and respect seeking has higher rating of variety of values with different motivational background, therefore it was named uncritical. They distinguish by high rating of their own public image and avoiding humiliation. Centered value scores discover the precedence of self-enhancement over self-transcendence and self-determination values. For example, Hedonism is rated higher than Benevolence-care (MD=.453, sig=.015) and benevolence-dependability (MD=.546, sig=.007), and Power dominance more than benevolence dependability (MD=.605, sig=.049).
- Cluster 2, named Indifferent, shows lower appreciation of different subsets of values: benevolence-care, self-enhancement values, openness to change, freedom and autonomy, dominance and influence. With the

Bonferroni correction applied, there seems to be no hierarchy of values in this cluster, all the values are relatively unimportant.

• Cluster 3, named Self-transcendent and respectful rates universalism and conformity as high as Cluster 1, and Power as low as Cluster 2. They distinguish by the highest appreciation of Tradition. Conservation values are rated equally to universalism, Conformity-rules is more important than Achievement (MD=1.133, Sig=.000) and Tradition more than Personal security (MD=.663, Sig=.023). Hedonism, rating it less than (Tradition MD=-1.185, Sig=.000, Conformity rules MD= -1.133, Sig=.000, Benevolence-care MD=-8.17, Sig=.000).

Discussion

The obtained clusters can be placed on the adaptivemaladaptive continuum, starting from Self-transcendent and respectful cluster, at the adaptive pole. According to their values, these students can be described as agreeable, respecting others, valuing creativity, and behaving according to the persisting social norms, contributing gladly to smooth functioning of social relations. Uncritical&respect seeking are coming next, with a risk of disappointment and frustration due to high appreciation of different values that can hardly be obtained at in any working context. High appreciation of mastery and success, facilitate and high goals for the students, and pronounced care about the public image may bring vain behavior. Self-enhancing cluster is closer to maladaptive pole, since success and pleasure have priority over tolerance and equity. They might be interested for the success of their students, but develop authoritarian style of teaching or be prone to bludging. Indifferent cluster might contain unmotivated teachers, with lower appreciation of nature protection and equality, justice and protection for all people or accepting people different from the majority. Therefore, the author places them closer to the maladaptive pole.

Conclusion

Among future preschool and class teachers, four groups whose values differ qualitatively can be identified, varying on the adaptive-maladaptive continuum. Knowing these groups can improve tailor-made discussions in the context of pre-service teachers education.

Acknowledgments

This research was funded by the Ministry of Education, Science and Technological Development of the Republic of Serbia (Contract No. 451-03-9/2021-14/200018)

References

Ennis, C. D. (1992). The Influence of Value Orientations in Curriculum Decision Making. *Secondary School Physical Education* 44(3), 317-329. https://doi.org/10.1080/00336297.1992.10484058

- Marušić Jablanović, M. (2018). Value priorities of future preschool and class teachers in Serbia in terms of the Schwartz refined value theory. *Psihologija*, *51*(2), 143-161.
- Schwartz, S. H. (2006). Basic human values: Theory, measurement, and applications. Revue Francaise de Sociologie. 47. 929-981.
- Schwartz, S. H., (2012). An overview of the Schwartz theory of basic values. *Online Readings in Psychology and Culture*, 2(1), 1–20. https://doi.org/10.9707/2307-0919.1116
- Schwartz, S. H. (2016). Coding and analyzing PVQ-RR data (instructions for the revised Portrait Values Questionnaire). http://dx.doi.org/10.13140/RG.2.2.35393.56165
- Schwartz, S. H. & Butenko, T. (2014). Values and Behavior: Validating the refined value theory in Russia. *European Journal of Social Psychology*, 44(7), 799-813. https://doi.org/10.1002/ejsp.2053
- Schwarz, S. H. & Cieciuch,, J. (2022). Measuring the Refined Theory of Indidividual Values in 49 Cultural Groups: Psychometrics of the Revised Portrait Value Questionnaire, *Assesment 29*(5), 1005-1019. doi.org/10.1177/1073191121998.

CIP – Katalogizacija u publikaciji Narodna biblioteka Srbije, Beograd

PROCEEDINGS OF THE XXIII SCIENTIFIC CONFERENCE EMPIRICAL STUDIES IN PSYCHOLOGY (28; 2022, Beograd)

[Zbornik radova] / XXVIII naučni skup Empirijska istraživanja u psihologiji 31. mart-3.april 2022; Filozofski fakultet, Univerzitet u Beogradu; [organizatori] Institut za psihologiju i Laboratorija za eksperimentalnu psihologiju – 1. Izd – Beograd: Filozofski fakultet, 2022 – 160 str.

Kor. Nasl. – Zbornik radova na srp. i engl. jeziku – elektronsko izdanje

ISBN-978-86-6427-245-2

- 1. Institut za psihologiju (Beograd)
- 2. Laboratorija za eksperimentalnu psihologiju (Beograd)
- a) Psihologija Empirijska istraživanja Zbornik radova