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THEORETICAL AND PRACTICAL ASPECTS OF IDENTIFICATION AND EVALUATION OF SCHOOL EDUCATION QUALITY

Abstract. The paper considers one of the main theoretical and practical pedagogical problems of education quality assessment. The quality measurement depends on successful identification of genuine (scientific) and false diagnostic methods; the process becomes more complicated in case of latent variables. As a solution, the authors recommend the Rasch measurement model for identifying an integral indicator of education quality. The method in question involves designing, approbation and analysis of diagnostic materials, as well as mathematical and statistical data processing based on specialized computer software. The paper describes the advantages and theoretical potential of the Rasch method, and emphasizes its capacity for solving the key problem of quality modeling – i.e. suitability and utility of the indicator variables for the given research.

Keywords: quality measurement, quality of school education, integral indicator of education quality, the Rasch model, latent variable, indicator variable.

References

1. Avanesov V. S. Main directions of development of pedagogical measurements. *Shkol'nye tehnologii*. [School technologies]. 2012. № 1. P. 157–174. (In Russian)
2. Avanesov V. S. The problem of quality of pedagogical measurements. *Pedagogicheskie izmerenija*. [Pedagogical measurements]. 2004. № 2. P. 3–27. (In Russian)
3. Avanesov V. S. The problem of pedagogical measurement of latent qualities. *Pedagogicheskie izmerenija*. [Pedagogical measurements]. 2010. № 3. P. 41–63. (In Russian)
4. Davletov A. I., Seraya A. A. Assessment of efficiency of fine arts therapy or method of psychological correction. *Istoricheskaja i social'no-obrazovatel'naja mysl'*. [Historical, social and educational thought]. 2010. № 1 (3). P. 86–94. (In Russian)
5. Zvonnikov V. I. Modern means of estimation of results of training: manual for students of higher educational institutions. Moscow: *Akademija* [Academy]. 2007. 224 p. (In Russian)
6. Kalney V. A., Shishov S. E. Technology of monitoring of quality of education in system «teacher – student». Moscow: Pedagogicheskoe obshhestvo Rossii. [Pedagogical society of Russia]. 1999. 86 p. (In Russian)
7. Lepikova N. V. Regulation of quality of training of students of higher education institution with use of information and communication technologies. Cand. Diss Chelyabinsk. 2007. 198 p. (In Russian)
8. Maslak A. A. Measurement of latent variables in social and economic systems: theory and practice. Slavyansk-on-Kuban: SGPI [Publishing center of the SGPI], 2007. 424 p. (In Russian)
9. Osipov S. A. Creation of system of measurement of latent variables on the basis of G. Rash's model for control of level of trainees' knowledge. Cand. Diss. Kursk, 2003. 128 p. (In Russian)
10. Panasyuk V. P. School and quality: the choice of the future. SPb: KAPO [CARO], 2003. 384 p. (In Russian)

11. Pozdnyakov S. A. Method and algorithms of measurement of latent variables at management in educational systems. Cand. Diss. Kursk, 2009. 168 p. (In Russian)
12. Creation of measurement technique of quality of education at school: methodical recommendations / A. A. Maslak, O. V. Leus, A. A. Danilov. Slavyansk-on-Kuban: SGPI [Publishing center of the SGPI], 2009. 67 p. (In Russian)
13. Sevruk A. I. Quality in education. Problems, models, technologies. Perm, 2000. 158 p. (In Russian)
14. Sevruk A. I., Yunina E. A. Monitoring the quality of teaching at schools: tutorial. Moscow: Pedagogicheskoe obshhestvo Rossii. [Pedagogical society of Russia]. 2003. 144 p. (in Russian)
15. Tretyakova T. V. System of assessment of quality of education and its construction in the regions with the territorial and national features. Doct. diss. Yakutsk, 2010. (In Russian)
16. Shishov S. E., Kalney V. A. Monitoring of quality of education at school. Moscow: Pedagogicheskoe obshhestvo Rossii [Pedagogical society of Russia], 1999. 354 p. (In Russian)
17. Andrich D. Rasch models for development. London: Sage Publications, 1988. 94 p. (translated from English)
18. Smith E. V., Smith M. S. Introduction to Rasch Measurement. Theory, models and applications. Maple Grove, Minnesota: JAM Press, 2004. 689 p. (translated from English)