

УДК 378.147:004

N. Rizun

IDENTIFICATION OF THE TESTEE'S INDIVIDUAL INTELLECTUAL ACTIVITY

The aim of the author's study is to develop a complex of mathematical methods, models and algorithms for the identification of individual intellectual activity of the testee, allowing to obtain an objective set of individual characteristics of professional and meaningful identification of her/his professional status on the basis of analysis of structures distributed in time evidence of the process of passing the certification procedure.

The complex mathematical methods, models and algorithms for the identification of individual intellectual activity of the testee were developed. This complex allows:

- to formalize the notion of test tasks as intelligent information models of real objects, concepts, situations;
- to formalize the process of individual intellectual activity of the testee as a set of cognitive processes and to execute their simulation using transient processes of the classical PI'-controller;
- to perform the formulation of the testee's task in the process of testing certification procedure, which confirm the required level of actual professional knowledge and specify the basic criteria for evaluating the quality of testee's individual intellectual activity;
- to obtain a set of characteristics of the sustainability of testee's individual intellectual activity through the using the indicator of the correlation coefficient. This coefficient is the measure the strength of the dependence between the serials of the reference and the actual time of the expert intelligent information models processing. The correlation coefficient in this interpretation could be used as a tool for analyzing the structure of the individual data about the process of passing the certification procedure, distributed in time.