

Vetrov Anatoly Nikolaevich  
www.vetrovan(.spb).ru  
RF, Saint-Petersburg city

## THE PROCESSOR OF PARALLEL PROCESSING OF DATA OF THE AUTOMATED TRAINING SYSTEM WITH THE PROPERTIES OF ADAPTATION BASED ON THE COGNITIVE MODELS

The processor of parallel processing of data acts as the integrated applied component of the automated training system with the properties of adaptation based on the param. cognitive models block (www.vetrovan(.spb).ru):

- 1) is executed by the classical principle of parallel architecture;
- 2) functions in the several modes, includes the procedures and algorithms:  
the authentication (the module of control of the processing of parameters for the providing of authentication of the user – the procedure of processing of the parameters of the method of research [the algorithms of analysis, accounting and setting up of the parameters of the national and foreign language of the method of research (tests), the algorithms of analysis, accounting and setting up of the parameters of series (variant) of the method of research (test)], the procedure of processing of the parameters of user of the autom. training system [the algorithms of analysis, accounting and setting up of the parameters of the (group of) users], the procedure of processing of the parameters of the mode of functioning of the system [the algorithms of analysis, accounting and setting up of the diverse parameters of the mode of administrating, diagnostics, analysis of a posteriori data, the parameters of various explanations and flickering banners]);  
the administrating (the module of control of the processing of parameters for the providing of the mode of administration of the information storage – the procedure of processing of the parameters of initialization and drawing of the form of program [the algorithms of analysis, accounting and setting up of the parameters of initialization and drawing of the form, the algorithms of analysis, accounting and setting up of the parameters of test from the database of tests], the procedure of processing of the parameters of the textual and graphical content of test [the algorithms of analysis, accounting and setting up of the parameters of inputting and changing of the elements of question, the quantity of the variants of answer on the question, the parameters of the type of selector of the correct variants of answer, the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the explanation, the timer of question of the method of res., the multimedia accompanying of the question of test], the procedure of processing of the parameters of the scale of estimation of the answer of test (the method of res.) [the algorithms of analysis, accounting, setting up and changing of the parameters of the scale of estimation of the answer to the question, the algorithms of analysis, accounting and setting up and changing of the parameters of the level scale of rough estimation of the answer to the certain question of the examinee, the algorithms of analysis, accounting, setting up and changing of the parameters of the ball scale of exact estimation of the variants of answer of the examinee to the certain question],

the procedure of processing of the parameters of inputting and changing of the current question of test [the algorithms of analysis, accounting and setting up of the parameters of buttons of the control panel of question of the method of research in the database of the program complex, the algorithms of analysis, accounting and setting up of the parameters of selecting of the question, the add. and removing of question, saving and canceling of change of the questions of test, the algorithms of analysis, accounting and setting up of the parameters of saving and clearing of the questions], the procedure of processing of the parameters of inputting and changing of the variants of answer to the question of test [the algorithms of analysis, accounting and setting up of the parameters of buttons of the auxiliary control panel of the variants of answer to the question in the database of the method of research, the algorithms of analysis, accounting and setting up of the parameters of switching of the variants of answer to the question, the add. and remov. of the variants of answer, saving and resetting of the parameters of the variants of answer], the procedure of processing of the parameters of inputting and changing of the warnings and explanations to the question of test [the algorithms of analysis of the parameters of displaying of the warnings and explanations of the questions of test]); the diagnostics (the module of control of the processing of param. for the providing of the mode of diagnostics – the procedure of processing of the parameters of initialization and drawing of the form [the algorithms of analysis, accounting and setting up of the param. of initialization and drawing of the form, the algorithms of analysis of the parameters of test from the database of tests], the procedure of processing of the parameters of the textual and graphical content of question [the algorithms of analysis, accounting and setting up of the parameters of inputting and changing of the elements of question, the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the (type of) selector, the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the quantity of the variants of answer, the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the textual content of question, the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the graphical content of question, the algorithms of analysis, accounting and setting up of the parameters of the timer of question, the algorithms of analysis of the parameters of multimedia accompanying of the question], the procedure of processing of the parameters of estimation of the variants of answer to the question [the algorithms of analysis, accounting and setting up of the selected variants of answer of the examinee, the algorithms of analysis, accounting and setting up of the pressing of the button of confirmation of the answer of the examinee, the algorithms of analysis, accounting and setting up of the interval of time of the timer, the algorithms of analysis of the starting of estimation of the result of testing of the examinee, the algorithms of analysis, accounting and setting up of the sign of correctness of the variants of answer of the examinee, the algorithms of analysis, accounting and setting up of the explanation of correctness of the answer], the procedure of processing of the parameters and the calculation of status of the examinee [the algorithms of analysis, accounting and setting up of the quantity of (in)correct answers to the questions, the sum of scored (penalty) points for each (in)correct variant of answer, the level of knowledge of the examinee on the coarse scale based on the sum of correct answers, the estimation of knowledge of the examinee on the exact scale based on the sum of scored points]);

the analysis of data (the module of control of the processing of parameters for the providing of the mode of the analysis of data – the procedure of processing of the parameters of initialization and drawing of the form [the algorithms of analysis, accounting and setting up of the parameters of initialization and drawing of the form, the algorithms of analysis of the parameters of test from the database of tests], the procedure of processing of the parameters of the educational centre, faculty, chair, the group of user, the user, the discipline and language [the algorithms of analysis, accounting and setting up of the parameters of inputting and changing of the elements of the educational center, the faculty, the chair, the group of users and the user, the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the elements of discipline, the algorithms of analysis, accounting, setting up and changing of the parameters of the national and foreign language], the procedure of processing of the parameters of extended elements of the method of research [the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the extended elements, the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the elements of a posteriori data, the algorithms of analysis, accounting, setting up and changing the parameters of displaying of the elements by default], the procedure of analysis, accounting, setting up and changing the parameters of displaying of the extended elements [the algorithms of analysis, accounting, setting up and changing of the parameters of display of the current set, the algorithms of analysis, accounting, setting up and changing the parameters of display of the elements of the cognitive model: the portrait, the kind of property, the property, the vector of parameter and parameters], the procedure of processing of the parameters of a posteriori data of testing [the algorithms of analysis and changing of the parameters of displaying of the elements of a posteriori data of testing, the algorithms of analysis and changing of the parameters of displaying of the elements of the name and the codifier of the method of research (test), the algorithms of analysis and changing of the parameters of displaying of the elements of the date and time of carrying out of the research (testing), the algorithms of analysis and changing of the parameters of displaying of the elements of status of the structure of data, the algorithms of analysis and changing of the parameters of displaying of the elements of the quantity of (in)correct answers, the algorithms of analysis and changing of the parameters of displaying of the elements of the level of knowledge on the rough scale, the algorithms of analysis and changing of the parameters of displaying of the elements of the quantity of (penalty) points on the exact scale, the algorithms of analysis and changing of the parameters of displaying of the elements of the estimation of knowledge on the exact scale], the procedure of processing of the parameters of the parametrical cognitive models block [the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the elements and nominal values by default of the parametrical cognitive models block, the algorithms of analysis, accounting, setting up and changing of the parameters of displaying of the elements and nominal values of the physiological, psychological and linguistic portrait of the cognitive model of the means and subject of training]).

CMT allows to realize the system analysis of the information-educational environment and to increase the efficiency of functioning of the automated training system with the properties of adaptation based on the cognitive models of the educational establishment.