

Vetrov A.N., Kotova E.E.

RF, Saint-Petersburg city

“The Saint-Petersburg state electrotechnical university "LETI"”

THE COGNITIVE MODEL OF THE USER
AS THE MEANS OF COMMUNICATIVE INTERACTION
WITH THE REMOTE TRAINING SYSTEM

In the present time in the network “Internet” appears more and more developments on the problem of remote training based on the new information technologies. The globalization of education finds its reflection in the developments of the training intelligent systems, the remote training (RT) systems, the consulting systems, based on the expert knowledge. The need of society in the development of such systems is increasing more and more in the various areas of science, technics and education. The work in the modern computerized systems shows the certain requirements to the cognitive resources of person.

One from the directions is to find and to develop the new means and methods of training, which would allow to activate maximally the productivity of the process of training to the user, and also to use the capabilities of program means for the work with the different contingents of trainees. The success and productivity of the process of training depends from many factors. In particular, one from the important questions – is the presentation of information for the individual training, and also the adjustment of the course of training on the model of user.

The possible ways of providing of the information in the course of remote training play the big role in the processes of the individual ways of processing of the information. At the providing of information to the trainee it should be taken into account the individual features of intellectual activity of the different people – the differences in the ways of processing of the information, designated as the cognitive styles. The cognitive styles are estimated compared with the individual abilities of cognitive processes in the quality of the intellectual activity of more higher order and they are considered as the manifestation of the personal organization of person as a whole. The degree of manifestation of the style properties is manifested usually in the psychological regularities.

The problematics of the cognitive styles occupies the certain place in the scientific researches of psychological disciplines, at the same time these questions cannot be taken into account at the considering of the process of interaction of the person with the computer systems, in particular at the developing of the technologies of remote training.

In this work proposes the cognitive model of the user (trainee) as the means of communication interaction with the remote training system, allowing to increase the success of training and the efficiency of the remote training systems. The being developed cognitive model is oriented on the diagnostics of the styles of perception of the information by the person, the character of cognitive processes, the ways of analysis and processing of the perceived information. In the process of RT it is created the special environment, the characteristics of which become the dominant processes (conscious and unconscious) of the trainee. The success of training of the subject is determined by the individual information selectivity and it is determined by the different factors. The external characteristics of RT system for the trainee interact with the internal (the cognitive and personal features of the trainee), organized by the special way in the cognitive model of the user. The building of the cognitive model carrying out at the help of a row of selected psychodiagnostics techniques, which reflect the cognitive maturity of the subject by the parameters of cognitive processes and the intellectual sphere, what creates the possibilities of subjective adaptation of RT systems and improves the quality of training.