FORMAL DESCRIPTION OF THE CLASSIFICATION AND PROCESSING OF A SPECIFIC-LEVEL CONCEPTUAL MODEL FOR A SUBJECT PROBLEM

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Preserving the intellectual potential of industrial enterprises is currently an urgent problem. The intellectual resource of any organization includes: experience and knowledge of its specialists; collections of regulations and standards stored both in document and electronic form. To transfer the accumulated information and knowledge from the memory of specialists and from documents to the computing environment, it is necessary to perform their formal modeling. The methodology that provides such transfer on the basis of knowledge modeling (or conceptual modeling) is the methodology of automation of intellectual work, developed at the Department of Information Technologies and computing systems MSTU «STANKIN».

The formal description of the model of technical knowledge in the form of a conceptual representation of subject problem within the framework of the methodology of automation of intellectual work allows not only to model knowledge in various methods (research, design, technological, managerial, etc.), but also allows you to further process and classify technical knowledge [1,2,3]. In this work, a formal description of the conceptual model of a specific level of the 1st kind for a subject problem that represents documented technical knowledge in the form of reference tables, and also provides a classification of subject dependencies of the 1st kind by type.

The formal description of the conceptual model of a specific level of the 1st kind is the basis for the development of an algorithm and methodology for processing statistical subject dependencies of the 1st kind in modeling technical knowledge.

References

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