

Название публикации:

Content evaluation in knowledge management systems

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Аннотация:

The paper considers questions of development of the knowledge management concept and enhancement of enterprise business processes based on a virtual information environment and a network model of cooperation provided by professional communities. An important aspect of using professional community portals is an opportunity, within this virtual environment, to connect to and cooperate with not only corporate employees themselves, but also any external users who would be given access rights, or a part of the portal would be made public. This opens vast opportunities for realization of network cooperation of users, but also sets a relevant task to evaluate materials posted on the portal. A rationale is noted for using integrated rating evaluation of content to enhance the quality of information search and help users achieve their goals while working in the virtual information environment. To speed up search for required information and optimize workflow, an integrated system for rating evaluation of materials has been devised. It is an embedded virtual reality instrument for data analysis and processing, a neuroevolutionary system that interacts with various components and services of the virtual reality. It has allowed to automate content processing in order to acquire relevant and quality information, generate new knowledge and apply results of intellectual activities to scientific researches. Based on the values of the content parameters, the integral score is calculated for making decision on how to process the materials, and the results of user search requests are rated. Multi-criteria calculation of integral rating score is needed for optimization of operations of the information environment. Its application simplifies a number of tasks, including processing of unrequested content, transfer of content with due characteristics to storage, quality search for and rating materials, accumulation of statistics for modification of the scope of information in the information environment. The proposed algorithm of intellectual data processing can be used in any project that requires rating evaluation, automation of decision making process, intellectual search and ranking content.

Ключевые слова:

Decision making support, Intellectual data processing, Knowledge management systems, Rating evaluation of content, Virtual information environment