

Methods of the organization of monitoring information-analytical systems for scientific and educational purpose on the basis of highly productive computing cluster technologies.

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Results

A number of approaches is developed for creation of monitoring information-analytical systems for scientific and educational activity support. The way of an efficiency estimation of using information-analytical, including monitoring information-analytical systems for solving problems of science and education on the basis of use spatial cognitive model of training is offered. Approaches to formation of specialized information-analytical systems architecture are created. The structurally-algorithmic organization of the monitoring information-analytical system directed on typical scientifically-educational analysts support is offered. Ways of the structurally-algorithmic organization of monitoring information-analytical systems modules on the specialized program agents basis are created. The way of the directed selective scanning of the heterogeneous distributed information resource is developed. The way of indexing of the monitoring results, focused on the text information semantics is offered. The way of text information objects ordering in the distributed heterogeneous information resource is created. The way of the architectural organization of storehouse of the mainly text type data based on the modified model "entity-attribute-value" is developed. Ways of analytical processing automation are developed for support of analytics forms of scientifically-educational activity. The offered ways and approaches are implemented in research prototypes of corresponding program modules of monitoring information-analytical system for scientifically-educational activity support.

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