

Abstract

of attestation master's degree work subject: "Semantic Grid for science and engineering"

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The purpose of work

The purpose of the given work is to review and analyze the use of Semantic Grid for science and engineering.

Urgency of spent researches

Relevance of the topic of this work is the fact that together with the rapid growth of information stored in the network, there is a greater need for tools to support the exchange of knowledge, resources, results and observations, information retrieval and data integration. Promising technology for solving these problems is the Semantic Grid.

Tasks solved in work

In the master work the following tasks are solved: review and analysis of ways to use the Semantic Grid for science and engineering work on resource discovery, information retrieval and data integration, recommendations for using each method.

The achieved results

The result of this work is a theoretical consideration of the use of Semantic Grid for science and engineering. Was structured material on the basic goals of the Semantic Grid: data integration, resource discovery and semantic search. Made recommendations about how to use each method, and for Semantic Grid as a whole.

Scientific novelty

Scientific novelty of the work lies in the analysis of the use of Semantic Grid for science and engineering, as this technology is a powerful tool for organizing data integration, resource discovery and search of information.

The practical value

The practical value of this work is to obtain systematic theoretical information on the use of Semantic Grid for science and engineering, were offered advice on each method of using the Semantic Grid for science and engineering.

Conclusions and recommendations

In the paper has been justified urgency of the topic and had achieved the main goal, namely, an overview of the use of Semantic Grid for science and engineering and suggested recommendations for the use of each method.

Work on 106 pages contains 18 illustrations. By preparation of work the literature from 24 resources were used.

Keywords:

Semantic Grid, ontology, resource discovery, semantic search, data integration.