ANNOTATION

for the graduate work of Ignatko Iurii Iuriiovych

on the point: «Grid Interoperability Solutions in Grid Resource Management»

Graduate work is devoted to research in the field of interoperability in the Grid technologies. This is - one of the most pressing and difficult challenges in modern information technology.

The purpose of my work is to analyze how to ensure interoperability between grid systems, and analysis capabilities to ensure interoperability between NASU ARC-based grid-infrastructure and AliEn-based grid, which is the part of CERN ALICE project.

The results were published 05.2011 at an international conference "SAIT-2011" under the thesis of «Interoperability in Grid systems».

This paper can be used:

1. As a first acquaintance with the problems in this area.
2. To familiarize with the structures of the such middlewares, as ARC, gLite and AliEn.
3. To view the module code in Perl, which translates the job with the Grid system AliEn to grid system ARC (structure of the algorithm was shown and the basic functions were explained).

The total size is 80 pages; main part chapters - 54 pages, 24 figure, 1 appendix, 40 bibliographic titles.

Keywords: interoperability, grid, ARC, AliEn, gLite, VOBox, EMI, middleware, virtual organization.