The national e-Infrastructure RENAM for the development of high-performance computing and information technologies

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Over the past several years the dependence of research and education on access to high-speed networking infrastructures, to large-scale computing and other e-Infrastructures' services is rapidly increasing [1]. The use of modern high-performance computing and information technologies allows solving complex problems of mathematics, physics, climatology, life science and other scientific fields [2]. The report is devoted to the analysis of approaches and solutions for the development of the national infrastructure of the RENAM network (Research and Educational Networking Association of Moldova, www.renam.md), which will ensure the deployment of modern information technologies and services for research and education. The prospects of creating new regional cross-border optical channels and other components of the electronic RENAM-GEANT (Gigabit European Advanced Network Technologies, www.geant.net) platform on the basis of the EU EaPConnect project are described [3, 4].

Bibliography

[1] Bogatencov P., Secrieru G., *Regional e-infrastructure and services for research and education in E&P Countries.* Eastern European Journal for Regional Studies (EEJRS). Vol.3, Issue 1, June 2017, pp. 89-101.

[2] Bogatencov P., Secrieru G., Tighineanu I., *E-infrastructura RENAM - platforma interoperabila de colaborare, resurse si servicii informationale in cercetare si educatie.* Revista ACADEMOS nr. 2(45), 2017, pp. 19-26.

[3] ***, *Project,* `https://www.eapconnect.eu`

[4] ***, GEANT *Pan-European Network,* `https://www.geant.org`