

Development of information system for radiobiological reserch on the HybriLIT platform

Tuesday, 10 November 2020 16:30 (15 minutes)

The report presents the status of work on the joint project of LIT and LRB on the creation of a service for studying behavioral and pathomorphological changes in the central nervous system of biological objects. To conduct modern scientific research in the field of radiobiology, it is usually necessary to use many different modern approaches to data analysis, image and video processing such as Computer Vision, Machine Learning \ Deep Learning, and information technology (IT) methods for data analisys. The developed service provides an environment for the development and implementation of ML/DL algorithms, debugging of relevant software and tools for visualizing the results of experimental data analysis. Service provide access to the computing resources of the HybriLIT platform and «Govorun» supercomputer for massive-parallel computations.

Primary authors: BUTENKO, Yuri; KOLESNIKOVA, Inna; NECHAEVSKIY, Andrey (JINR); Dr PODGAINY, Dmitry; Mr STADNIK, Alexey (LIT, JINR); Dr STRELTSOVA, Oksana

Presenter: BUTENKO, Yuri

Session Classification: Information Technologies

Track Classification: Information Technology