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Modelling LIT Cloud Infrastructure at JINR and Evaluating the Model

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The project is aimed at modelling LIT Cloud infrastructure at JINR and solving a problem of effective resource utilization and performance evaluation of allocation and migration algorithms considering virtual machines deployment at the facilities. The main intention is to distribute processes over involved resources with the highest density possible. In order to fulfil the requirements regarding a successful solution of the problem, the assessment of existing modelling frameworks and their comparison have been carried out. Furthermore, an initial to-be-optimised model has been implemented. Currently, the project is focused on evaluation of the model and its adjustment to the used real-life environment.

Primary author: Mr AIRILAN, Vagram (LIT JINR / Dubna State University)

Co-authors: Mr NECHAEVSKIY, Andrey (LIT JINR); Prof. KORENKOV, Vladimir (LIT JINR)

Presenter: Mr AIRILAN, Vagram (LIT JINR / Dubna State University)

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