

Session Program

10–14 Sept 2018



The 8th International Conference "Distributed Computing and Grid-technologies in Science and Education" (GRID 2018)

8. High performance computing, CPU architectures, GPU, FPGA

Tuesday 11 September

13:30

8. High performance computing, CPU architectures, GPU, FPGA

Session | Location: Conference Hall

13:30–13:45

Govorun supercomputer engineering infrastructure . Monitoring system of engineering infrastructure.

Speaker

Alexey Vorontsov

13:45–14:00

Network Infrastructure of heterogeneous platform «HybriLIT»

Speaker

Dmitry Belyakov

14:00–14:15

Information-software environment for the GOVORUN supercomputer

Speaker

Ms Shushanik Torosyan

14:15–14:30

RSC BasIS Platform - micro-agent platform to manage computer clusters

Speaker

Pavel Lavrenko

14:30–14:45

Storage-on-demand: storage and compute united. RSC Tornado hyper-converged solution for data processing

Speaker

Pavel Lavrenko

15:00

15:30

8. High performance computing, CPU architectures, GPU, FPGA

Session | Location: Conference Hall

15:30–15:45

SALSA - Scalable Adaptive Large Structures Analysis

Speaker

Martin Vala

15:45–16:00

Merging multidimensional histograms via hypercube algorithm

Speaker

Andrey Bulatov

16:00–16:15

Distributed virtual cluster management system

Speaker

Dr Vladimir Korkhov

16:15–16:30

Контекстная графическая среда пространственной визуализации результатов вычислительных экспериментов в механике сплошных сред

Speaker

Dr Vasily Khrumushin

16:30–16:45

О согласовании вычислительного эксперимента при интерактивном моделировании гидромеханики корабля в штормовом море

Speaker

Dr Vasily Khramushin

16:45–17:00

Библиотеки и пакеты прикладных программ, доступные пользователям ЭВМ ОИЯИ

Speaker

Dr Tatiana Sapozhnikova

17:00

Thursday 13 September

13:30

8. High performance computing, CPU architectures, GPU, FPGA

Session | Location: Conference Hall

13:30–13:45 On porting of applications to new heterogeneous systems

Speaker

Prof. Alexander Bogdanov

13:45–14:00 Algorithms for the calculation of nonlinear processes on hybrid architecture clusters

Speaker

Prof. Alexander Bogdanov

14:00–14:15

Optimization problem for the heat equation towards an improvement of the "thermal shutter" characteristics

Speaker

Mr Alexander Ayriyan

14:15–14:30

Real-time visualization of ship and wavy surface motions based on GPGPU computations

Speaker

Mr Anton Gavrikov

14:30–14:45

GPGPU implementation of Schrödinger's Smoke for Unity3D

Speaker

Anastasia Iashnikova

14:45–15:00

Accelerating real-time ship motion simulations using general purpose GPU computations

Speaker

Mr Ivan Petriakov

15:00

15:30

8. High performance computing, CPU architectures, GPU, FPGA

Session

15:30–15:45 The Usage of HPC Systems for Simulation of Dynamic Earthquake Process

Speaker

Mr Vasily Golubev

15:45–16:00

Different Approaches for Elastic Imaging using Multiprocessor Computing Systems

Speaker

Mr Vasily Golubev

16:00–16:15

A SOFTWARE PACKAGE FOR STUDYING THE SYSTEM OF LONG JOSEPHSON JUNCTIONS ON HYBRID COMPUTING ARCHITECTURES

Speaker

Mr Maxim Zuev

16:15–16:30

HybriLIT monitoring system

Speaker
Mr Yuri Butenko

16:30–16:45 Ways to improve the productivity of fire simulation tools on modern equipment

Speaker
Mr Victor Smirnov

16:45–17:00

Comparison of Python 3 Single-GPU Parallelization Technologies on Example of Charged Particles Dynamics Simulation Problem

Speaker
Mr Alexey Boytsov

17:00