

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



Contribution ID: 247

Type: **Sectional reports**

## Modeling of task scheduling in desktop grid systems at the initial stage of development

*Monday, September 10, 2018 2:00 PM (15 minutes)*

The paper presents an overview of modern methods for task scheduling in desktop grid systems, estimates of the quality of methods, including: the time of execution of all tasks, the level of resource utilization. Heuristic approach to task scheduling is considered, which allows ensuring high performance and reliability of such systems at the early stages of development. A comparative analysis of the results of computational experiments performed with the help of the GridSim high performance computing simulation tool for various desktop grid system configurations is carried out.

**Primary author:** Mr KUROCHKIN, Ilya (IITP RAS)

**Presenter:** Mr KUROCHKIN, Ilya (IITP RAS)

**Session Classification:** 7. Desktop grid technologies and volunteer computing

**Track Classification:** 7. Desktop grid technologies and volunteer computing