

# ONLINE International Conference

## "Computer Simulation in Physics and beyond"

October 12-16, 2020, Moscow, Russia

### ORGANIZED BY:

National Research University Higher School of Economics  
Science Center in Chernogolovka  
Landau Institute for Theoretical Physics

Computer simulations are a fast-growing approach for researching sciences. It is auxiliary to experimental and analytical research. The main goal of the conference is in the development of methods and algorithms which take into account trends in hardware development, and which may help to intensive research. The meeting should play the role of the venue where senior scientists and students might have the opportunity to speak to each other and exchange ideas and views on the developments in the area of high-performance computing in most sciences.

The program of the conference is concentrated on the analysis and discussion of research and activity in supercomputer simulations that generally lie on the boundary of scientific branches, i.e., which are multidisciplinary research.

The conference program is also based on the background of the activity of Russian researchers in computing, physics, mathematics, and engineering.

An essential feature of the conference is a large number of young researchers and students, with poster and oral presentations.

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VENUE: Tallinskay ul. 34, Moscow  
WEBSITE: <http://csp2020.ac.ru/>  
CONFERENCE CHAIR: Lev Shchur

### TOPICS:

- Simulations in statistical physics
- Physics and mechanics of polymers
- Space research: simulations and big data
- Methods and software for simulations in research and engineering (hydrodynamics, aerodynamics, etc.)
- Computational and statistical genomics
- Simulations in material science
- Simulations and analysis of social networks
- Precision many-body physics
- Simulation and analysis of technical networks (roads, urban transportation, data networks, etc.)
- Algorithms and methods of information transmission and signal processing
- Algorithms, methods, and tools with properties of scalability and enhanced parallel simulations
- Informatics and education

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