



Preface

On 10 – 14 September, the Laboratory of information technologies hosted the eighth international conference "Distributed computing and grid-technologies in science and education" (GRID'2018). The conference is held every two years and is traditional for the Laboratory. This is a unique Conference, held in Russia on the questions related to the use of distributed computing in various areas of science, education, industry and business. The main purpose of the Conference is to discuss the current Grid operation and the future role of the distributed and cloud computing, HPC, BigData etc. in Russia and worldwide. The Conference provides a platform for discussing fresh results and for establishing contacts for closer cooperation in future. The conference attracted a large community of Russian and foreign specialists ready to discuss emerging challenges and prospects of the development of advanced information technology. The conference was attended by more than 260 scientists from the research centers of Azerbaijan, Belarus, Bulgaria, Germany, Georgia, China, Moldova, Mongolia, Romania, Slovakia, Czech Republic, Chile, France, Sweden, etc. Russia was represented by participants from more than 30 universities and scientific research centers. The conference was organized in ten sections which discussed the issues related to the development of grid technologies, heterogeneous computing, volunteer computing, cloud computing, big data analytics. Also, in frames of the conference organized was a school for young scientists, students and postgraduates and tutorials were conducted on heterogeneous and cloud computing. Financial support for the conference was provided by the JINR Directorate. The sponsors and partners of the conference were companies Huawei, IBS Platformix, Supermicro Computer, NIAGARA, Jet Infosystems, Extreme Networks, NVIDIA, Dell EMC , Intel, CISCO, Softline, RSC Group, PARALLEL.RU as well as Publishing house "Open systems" and Modern Information Technology and IT-education scientific journal. 40 students and young scientists from foreign and the Russian universities (MEPhI, St. Petersburg State University and University "Dubna") attended the School. During the conference the participants were involved in fruitful discussions and arguing; proposed were new IT projects aimed at the development of distributed and high-performance computing. New areas of LIT cooperation with organizations, universities of Russia and JINR Member States were found. Presentations of the delivered reports, electronic version of the Book of Abstracts as well as conference photos are available on the official site of the Conference at <http://grid2018.jinr.ru>.

Chairman

Korenkov V.V.

Vice-Chairman

Strizh T.A.