Data Challenge in Large Scale Scientific Research

Professor Hesheng Chen
Inst. of High Energy Physics, Chinese Academy of Sciences
Beijing 100049, China

Large scale scientific research plays key role in many fields of modern sciences, particularly in high energy physics, genomics, meteorology, biology, astronomy and environmental research…etc. To handle the gigantic data generated from large scale scientific research, including acquisition, storage, sharing, analysis and visualization, are great challenges. Some examples of large scale scientific projects and their computing models are presented. The details of data challenges are discussed. The activities of data intensive computing in China are introduced. The trends of the solution of data process will be anticipated.