

Haohuan Fu

Bio:

Haohuan Fu is the deputy director of the National Supercomputing Center in Wuxi, and leads the research and development efforts on Sunway TaihuLight, the current fastest supercomputer in the world. He is also an associate professor in the Ministry of Education Key Laboratory for Earth System Modeling, and Department of Earth System Science in Tsinghua University, where he leads the research group of High Performance Geo-Computing (HPGC). Fu has a PhD in computing from Imperial College London. Since joining Tsinghua in 2011, Dr. Fu has been working towards the goal of providing both the most efficient simulation platforms and the most intelligent data management and analysis platforms for geoscience applications. His research has, for example, led to efficient designs of atmospheric dynamic solvers for both Tianhe-1A, Tianhe-2, Sunway TaihuLight supercomputers, and the reconfigurable computing platforms. The work based on reconfigurable technology can be both faster and more energy efficient than the Tianhe-1A and Tianhe-2 supercomputer, leading to a publication selected as one of the 27 most Significant Papers of the FPL conference in 25 years (27 out of 1765). The work based on the Sunway TaihuLight supercomputer manages to scale a fully-implicit solver to over 10 million cores, which won the Gordon Bell Prize of SC16.