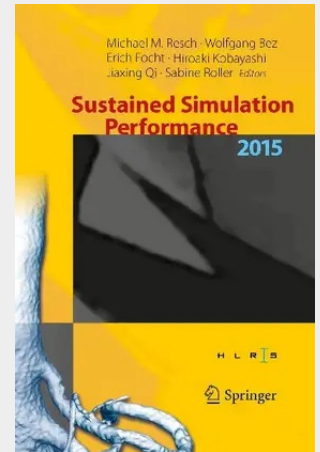


Sustained Simulation Performance 2015

Proceedings of the joint Workshop on Sustained Simulation Performance, University of Stuttgart (HLRS) and Tohoku University, 2015

The book presents the state of the art in high-performance computing and simulation on modern supercomputer architectures. It covers trends in hardware and software development in general, and the future of high-performance systems and heterogeneous architectures specifically. The application contributions cover computational fluid dynamics, material science, medical applications and climate research. Innovative fields like coupled multi-physics or multi-scale simulations are also discussed. All papers were chosen from presentations given at the 20th Workshop on Sustained Simulation Performance in December 2014 at the HLRS, University of Stuttgart, Germany, and the subsequent Workshop on Sustained Simulation Performance at Tohoku University in February 2015.

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