

SC20 MORE THAN HPC

SC20



2020 Chair
Christine E. Cuicchi
Virtual Event

A Year of Firsts



First-Ever Virtual SC

The SC Planning Committee commits to bringing as much of the program content as possible via live-stream to virtual attendees.



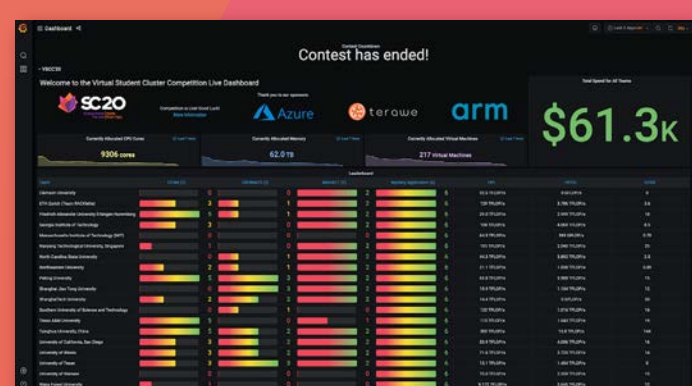
Preview Booth T-Shirt

The passion of the HPC community unlocks insights and ideas serving the greater good.



Humans of SCinet

Blog series featuring eight posts highlighting people from the vibrant SCinet community.



VSCC20

First Virtual Student Cluster Competition allows a record 19 teams to expand their knowledge of running HPC workloads in the cloud.

2020

Top Ten Supercomputers (Via TOP500 List, November 2020)

- | | |
|-------------------|-----------------------|
| Fugaku | Tianhe-2A |
| Summit | JUWELS Booster Module |
| Sierra | HPC5 |
| Sunway TaihuLight | Frontera |
| Selene | Dammam-7 |

Test of Time Award

SC02 Paper: An Overview of the BlueGene/L Supercomputer

Authors: The BlueGene/L Team, accepted by Jose Moreira and Jeffrey S. Vetter

Gordon Bell Prize for COVID-19 Research (INAUGURAL)

AI-Driven Multiscale Simulations Illuminate Mechanisms of SARS-CoV-2 Spike Dynamics

Authors: Rommie Amaro, Arvind Ramanathan, Tom Gibbs, John Stone, Jim Phillips, Lillian Chong, Lorenzo Casalino, Abigail Dommer, David Hardy, Julio Maia, Thorsten Kurth, Shantenu Jha

Best Paper Award

Petascale XCT: 3D Image Reconstruction with Hierarchical Communications on Multi-GPU Nodes

Authors: Mert Hidayetoglu, Tekin Bicer, Simon Garcia de Gonzalo, Bin Ren, Vincent De Andrade, Doga Gursay, Rajkumar Kettimuthu, Ian T. Foster, Wen-mei W. Hwu

Plenary Sessions

Keynote: Climate Science in the Age of Exascale

Speaker: Bjorn Stevens

More Than HPC Plenary: Advanced Computing and COVID-19

Moderators: David Abramson, Antonio J. Peña

Panelists: Rommie Amaro, Alessandro Vespignani, Ilkay Altintas, Rick Stevens

SCinet Network Architecture

Despite the virtual conference precluding the annual network buildout, more than 130 volunteers representing 62 organizations shifted to supporting 37 hours of pre-recorded SCinet sessions, 14 hours of live stream sessions, and hundreds of hours of closed-captioning support.