SC20 MORE THAN HPC

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
- 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 Gonzalez, Bin Ren, Vincent De Andrade, Doga Gursoy, 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.