2018 Chair
Ralph McEldowney
Dallas, TX

2018 Top-ten supercomputers:
- Summit
- Sunway TaihuLight
- Sierra
- Tianhe-2A
- Al Bridging Cloud Infrastructure

Best Paper Finalists:
- Exploring Idle Resources in a High-Radix Switch for Supplemental Storage Authors: Matthias A. Blumrich, Nan Jiang, Larry R. Dennison
- Extreme Scale De Novo Metagenome Assembly Authors: Evangelos Georganas, Rob Egan, Steven Hofmeyr, Eugene Goltsman, Bill Arndt, Andrew Tritt, Aydin Buluc, Leonid Oliker, Katherine Yelick

Best Student Paper Finalists:
- Doomsday: Predicting Which Node Will Fail When on Supercomputers Authors: Anwesha Das, Frank Mueller, Paul Hargrove, Eric Roman, Scott Baden
- Distributed-Memory Hierarchical Compression of Dense SPD Matrices Authors: Chenhao D. Yu, Severin Reiss, George Biros
- HICDO: Hierarchical Storage of Sparse Tensors Authors: Jiaju Li, Jinmeng Sun, Richard Vuduc
- Mitigating Inter-Job Interference Using Adaptive Flow-Aware Routing Authors: Staci A. Smith, Clara E. Cremey, David K. Lowenthal, Jens Domke, Nikhil Jain, Jayaraman J. Thiagarajan, Abhinav Bhatele
- Cooperative Rendezvous Protocols for Improved Performance and Overlap Authors: S. Chakrabarty, M. Bayatpour, J. Hashmi, H. Subramoni, D. K. Panda

Test of Time Paper Winner

SCinet Network Architecture
- 3.92 Tbps Wide Area Network capacity
- 41 wide area connections
  - 20 100 Gigabit
  - 2 10 Gigabit
- 6 network carrier providers

[June 2018 top 10 systems]