2011
Notable Systems first mentioned this year in the proceedings:
- Cray XT5
- Jaguar
- T2K Open Supercomputer (Tokyo)
- Roadrunner
- NCSA Lincoln GPU cluster
- Amazon EC2
- Ranger

Application/Problem Studies:
- Communication optimization in asymmetric interconnects
- Optical memory access networks
- Heart simulation
- High resolution weather prediction
- Molecular Dynamics Discrete Particle Simulation
- Effects of System Noise on Application

Noteworthy Architecture Topics:
- All-to-All Communications
- Evaluating networks
- Multi-domain dynamic power and clock frequency management for chip MPUs
- GPU acceleration of memory-intensive application
- Adding new levels/devices to memory hierarchies
- GPGPUs and expanded programming models for them
- Formal verification of MPI programs

Other Topics:
- Scalable checkpointing