HPCMASPA 2015 Workshop Welcome Message

As HPC systems move toward exascale sizes, monitoring and metrics gathering of the systems themselves and the applications that run on them continue to be evolving fields. In 2014, we held the inaugural Workshop on Monitoring and Analysis for High Performance Computing Systems Plus Applications (HPCMASPA) at IEEE CLUSTER, which was a great success. This year is proving to be a strong second year, with one panel and 12 accepted papers being presented at the workshop.

Papers being presented at the 2015 workshop span diverse topics in HPC systems and applications. Papers range from low-level systems monitoring, as seen in the description from Rashtii et al. of their system for monitoring power usage in HPC systems, up to application-level monitoring, as seen in the work done by Aaziz et al. to combine two tools to scalably collect application metrics, and everywhere in between. The papers cover the full lifetime of HPC systems, starting early in the system integration process, as discussed by Brandt et al., and continuing late into a system’s life, as described by DeConinck et al. This year’s papers are nicely balanced between novel research, as seen in the tree aggregation network modeling work done by Groves et al., and the practical system design considerations discussed by Wallace et al., making the workshop a great bridge between research and production computing.

We are excited to be holding the HPCMASPA workshop again this year and helping advance both the research and the practice of HPC monitoring and analysis, and we look forward to the research presented at the workshop and in the proceedings being used as a foundation for monitoring in the coming exascale environment.

Benjamin Allan, Sandia National Laboratories
Jim Brandt, Sandia National Laboratories
Ann Gentile, Sandia National Laboratories, Coordinating Chair
Cory Lueninghoener, Los Alamos National Laboratory
Nichamon Naksinehaboon, Open Grid Computing
Boyana Norris, University of Oregon
Narate Taerat, Open Grid Computing, Web Chair

HPCMASPA Organizing Committee