Workshop on High-Performance, Power-Aware Computing –HPPAC

2015 Workshop Theme

High-performance computing is and has always been performance-oriented. However, a consequence of the push towards maximum performance is increased energy consumption, especially in datacenters and supercomputing centers. Moreover, as peak performance is rarely attained, some of this energy consumption results in little or no performance gain. In addition, large energy consumption costs datacenters and supercomputing centers a significant amount of money and wastes natural resources.

The main goal of this workshop is to provide a timely forum for the exchange and dissemination of new ideas, techniques, and research in high-performance, power-aware computing (HPPAC). HPPAC will present research that reduces (1) power consumption, (2) energy consumption, or (3) heat generation with little or no performance penalty in high-performance computing systems. In effect, the workshop aims to move towards "greener" solutions for datacenters and supercomputing centers. Examples include Green Destiny (2001), The Green Grid (2007), The Green500 List (2007), and the INRIA Green-Net Initiative (2008).

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