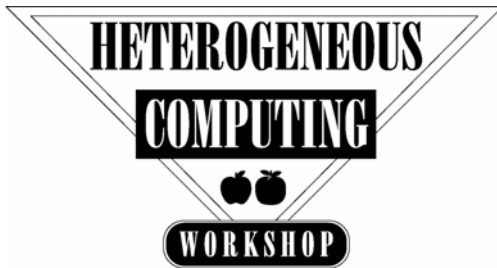


# 1 HCW • Heterogeneous Computing Workshop



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## The 15th Heterogeneous Computing Workshop (HCW'2006)

Heterogeneous computing systems are those with a range of diverse computing resources that can be local to one another or geographically distributed. The pervasive use of networks and the Internet by all segments of modern society means that the number of connected computing resources is growing tremendously. Hence, the opportunity and need for heterogeneous computing systems to effectively utilize these resources in new, novel ways is growing concomitantly. This has given rise, for instance, to the notions of cluster computing, grid computing, and peer-to-peer computing. The effective implementation of efficient applications in these environments, however, requires that a host of issues be addressed that simply do not occur in "single-chassis" sequential or parallel machines. Thus, the topics of interest concerning heterogeneous systems and environments include, but are not limited to: programming paradigms and tools, resource discovery and management, task and communication scheduling, task coordination and workflow, performance management, heterogeneous cluster computing, grid computing, peer-to-peer computing, adaptive computing, ubiquitous computing, mobile computing, real-time distributed systems, security, fault tolerance, and application case studies.

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