The 2000 International Workshop on Cluster Computing – Technologies, Environments, and Applications

CC-TEA'2000

PREFACE: CC-TEA’2000 Chairs Message

Welcome to the 2000 International Workshop on Cluster Computing - Technologies, Environments, and Applications (CC-TEA’2000)! The workshop will be held in conjunction with the 2000 International Conference on Parallel and Distributed Processing Techniques (PDPTA'2000) in Las Vegas, USA, June 26-29, 2000. The CC-TEA’2000 workshop is sponsored by the IEEE Computer Society Task Force on Cluster Computing (TFCC). The TFCC sponsors professional meetings, publish newsletters and other documents, set guidelines for educational programs, as well as help co-ordinate academic, funding agency, and industry activities in the area of commodity cluster computing. For further information on TFCC activities, please access the Task Force web site: `http://www.ieeetfcc.org`

Cluster computing can be described as a fusion of the fields of parallel, high-performance, distributed, and high-availability computing. It has become a hot topic of research among academic and industrial communities, including system designers, network developers, language designers, standardizing forums, algorithm developers, graduate students and faculties. The use of clusters as a computing platform is not just limited to scientific and engineering applications; there are many business applications that can benefit from its use. There are many exciting areas of development in cluster computing with new ideas as well as hybrids of old ones being deployed for production as well as research systems. There are attempts to couple multiple clusters, either built in the same organisation or situated in multiple organisations forming what is known as *federated clusters* or *hyperclusters*. Such utilisation of hyperclusters (clusters of clusters) as a computational infrastructure can also be referred to as computational grids. The concept of computing portals that offers web-based access to applications running on clusters is getting popular. Such computing portals, offering access to scientific applications online, are called *scientific portals*.

We thank our international program/review committee members for donating their precious time for reviewing and offering their expert comments on the papers. We solicited at least two reviews on each of the submitted papers and those papers that received positive comments have been selected for presentation at the workshop. We would like to thank the organizers of PDPTA’2000 and conference chair, Hamid Arabnia, for their support in hosting the workshop in conjunction with their conference. Our special thanks to all authors who have submitted papers for the workshop.

CC-TEA is an annual international meeting that brings together cluster computing researchers, developers, and users across the globe and serves as a forum to present their research findings as well as highlights activities in this area. We hope that your participation in the event will create a new network of colleagues, friendship, and provide a great opportunity to see the latest developments in cluster computing research in both industry and academia.

We have also started to work on the 2001 edition and we hope to see you all again in CC-TEA’2001.

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