

Introduction to Special issue on Recent Advanced Technologies and Theories  
for Grid and Cloud Computing

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Abstract

Grid and Cloud Computing has emerged rapidly as an exciting new computing paradigm and includes pervasive, personal, and peer-to-peer computing to provide computing and communication services. Tremendous advances in processing, communication and systems/middleware technologies are leading to new paradigms and platforms for grid and cloud computing. Grid and cloud computing enables the sharing of distributed computing and data resources such as processing, networking and storage capacity to create a cohesive resource environment for executing distributed applications in service-oriented computing. There might be many issues to realize and provide intelligent services and much effort and enormous attention have been focused on the cloud and grid computing environments. The research area poses challenges such as virtualization, new systems and tools, middleware technologies, service-oriented architectures and models, cloud/grid security and trustworthy, autonomous and intelligent management, and mobile cloud application and framework.

Keyword : Grid computing, Cloud computing