CALL FOR PAPERS

Special Issue on "Grid and Cluster Computing"
The July Issue of *Journal of Computers* **(http://www.joc.iecs.fcu.edu.tw/)**
Published by the Computer Society of the Republic of China

Journal of Computers seeks original manuscripts for a Special Issue on "Grid and Cluster Computing" scheduled to appear in the July Issue of 2008.

Grid can be seen as a type of parallel and distributed system that enables the sharing, selection, and aggregation of geographically distributed autonomous resources dynamically at runtime depending on their availability, capability, performance, cost, and users' quality-of-service requirements.   It provides a service for sharing computer power and data storage capacity over the Internet. When the resources are shared only through a local area network, the system can be also called as a cluster. Recently due to the advances in computer networks, grid and cluster computing has been used to solve problems that are beyond the realm of a single computer system. Grid and cluster computing has applications in astrophysics, astronomy, meteorology, biology, etc. However, to make it friendlier to use and more powerful, many things have to be done such as human-computer interface, middleware, open standards, application program interface, and so on. Therefore, the main purpose of this Special Issue is to provide a forum for researchers to share their experiences in grid and cluster computing and to further foster research in these areas.

Topics of interest include recent advances in all aspects of Grid and Cluster Computing, including, but not limited to:
  - Novel applications in grid and cluster computing
  - Human-Computer Interface for grid and cluster computing
  - Middleware and API
  - Security in grid and cluster computing
  - Data grids
  - P2P and grids
  - Scheduling and load balancing for grid and cluster computing
  - Resource locating and monitoring
  - Quality of service provisioning
  - Theoretical aspects of grid and cluster computing

Papers must not have been previously published or currently in review process for journal publication elsewhere. For additional information and paper submission, please contact
Guest Co-Editor: Prof. Ruay-Shiung Chang, at rschang@mail.ndhu.edu.tw.

IMPORTANT DATES
Submission Deadline: January 15, 2008
Notification of Acceptance: April 15, 2008
Final Manuscripts Due: April 30, 2008

GUEST CO-EDITORS
Prof. Ruay-Shiung Chang   Prof. Yeh-Ching Chung
National Dong Hwa University, Taiwan   National Tsinghua University, Taiwan
rschang@mail.ndhu.edu.tw   ychung@cs.nthu.edu.tw