

Xi He

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Education

M.S. Computing Science, Rochester Institute of Technology, 2008-present.

M.S. Computer Science, South China Normal University, 2005-2008.

B.S. Computer Science, HuNan University, 1996-2000.

Research Interests

Grid Computing, Embedded Systems, Cloud Computing, Green Computing, Parallel Computing.

Research Activity

Participate in the research project *Parallel Java*, which is an API and middleware for parallel programming in 100% Java.

Participate in the research project *Cyberaide JavaScript*, which is an easy-access JavaScript grid abstraction layer.

Participate in the research project *Cyberaide Shell*, an advanced but simple to use system shell facilitating the use of current and future cyberinfrastructure.

Participate in the research project *An Adaptive Cyberinfrastructure for Threat Management in Urban Water Distribution Systems*.

Collaborate with Center for Computational Research for the *Green Computing* project.

Publications

X. He, "Thermal Aware Task Scheduling With Artificial Neural Network", The First International Green Computing Conference, Chicago, IL, Aug. 15, 2010, Submitted.

Wang, L., A. J. Younge, T. R. Furlani, G. von Laszewski, J. Dayal, and X. He, "Towards Thermal Aware Workload Scheduling in a Data Center", 10th International Symposium on Pervasive Systems, Algorithms and Networks (I-SPAN 2009) , Kao-Hsiung, Taiwan, 12/2009, Accepted.

Laszewski, G., Wang L., Younge A. J., and He X., "Power-Aware Scheduling of Virtual Machines in DVFS-enabled Clusters", IEEE Cluster 2009, New Orleans, Louisiana, IEEE, 08/2009.

Laszewski, G., Younge A., He X., Mahinthakumar K., and Wang L., "Experiment and Workflow Management Using Cyberaide Shell", 4th International Workshop on Workflow Systems in e-Science (WSES 09) in conjunction with 9th IEEE International Symposium on Cluster Computing and the Grid: IEEE, 2009.

Laszewski, G., Wang F., Younge A., He X., Guo Z., and Pierce M., "Cyberaide JavaScript: A JavaScript Commodity Grid Kit", GCEo8 at SC'o8, Austin, TX, IEEE, Nov. 16, 2008.

Professional Experience

Software R&D Intern 2006-2007

- Participate in the development of Embedded Systems for the Ninth GuangDong Games.
- Design and develop the online transaction platform for Guangzhou Social Insurance Bureau.
- Design and develop the LED subsystem for the Second Asian Indoor Games.
- Design and develop the Score subsystem for the Ninth GuangDong Games.
- Participate in the development of IT Service Management Software.
- Participate in the development of Project Management Software.
- Participate in the development of Bug Management Software.

Teaching Intern 2005-2006

- Web Services.
- Java Programming.

Software Engineering 2002-2005

- Participate in the development of MinSheng Banking System.
- Participate in the development of Card SubSystem of industrial and Commercial Bank of China.

Technical Skills

- Programming: C, C++, C#, Java, VB, Delphi, Python, PHP, UNIX shell scripting and others.
- Database: Oracle, Informix, MSSQL, MySQL.
- Application: Latex, Microsoft Office, and other common productivity packages for Windows, OS X, Linux platforms.
- Operating Systems: Microsoft Windows XP/2000/2003, Apple OS X, Linux, SCO, AIX and other UNIX variants.