



Shadi Ibrahim

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PARTICULARS

BRIEF SELF DESCRIPTION

I am a 4th year PhD student in the School of Computer Science at Huazhong University of Science & Technology HUST. In particular, I am a member of the Services Computing Technology and System Laboratory SCTS and my Advisor is Prof. Hai Jin.

SUMMARY OF QUALIFICATIONS

Good research experience in computer systems and a solid background in computer science and engineering.
Good speaking and communication skills developed through conference presentations and guest lectures;
teaching experience in assisting undergraduate courses.

EDUCATION

Huazhong University of Science & Technology, Wuhan, CHINA
Ph. D. in Computer Science
Advisor: Prof. Hai Jin

Sep 2007- Present

Wuhan University of Science and Technology, Wuhan, CHINA
M.S. in Computer Application and Technology
Advisor: Prof. Guo Qingping

Jun 2007

Al-Baath University, Homs, SYRIA
B.E. in Informatics

Jul 2002

CURRENT STATUS

P.R.China. Permanent Resident, Citizen of Syria.

RESEARCH INTERESTS

Distributed systems, virtualization, cloud computing, grid and high-performance computing, file and storage systems, P2P computing.

RESEARCH EXPERIENCE

- **Research Intern, System Research Group, Microsoft Research Asia (MSRA), Nov 2009 -Jan 2010.**
Dollar Computing: The goal of this project is to investigate the current pricing schemes in the Cloud, and introduce fairer pricing scheme that can effectively guide users and providers to improve the system throughput.

- **Research Assistant, Huazhong University of Science & Technology, Sep 2007 - Present.**
Basic Theory and Methodology of Virtualization Technology for Computing System, (September 2008 - Present): The national 973 basic research program of China, The Research program can be divided into the following eight items: (1) the theoretical model and architecture of the virtualized computing system; (2) single-dimensional system resource virtualization; (3) multi-dimensional system resource virtualization; (4) pervasive computing environment of virtualized system; (5) security and trusted scheme of the virtualized computing system; (6) theory and approach of evaluating virtualized computing system; (7) high productivity computing based virtualization technology; (8) the application of virtualized simulation system. (URL: <http://grid.hust.edu.cn/973/>).
- CRANE PAAS for scientific computing**, (Sep 2010 - present): CRANE is MPI PaaS for the research institutions to provide parallel computing environment. (URL: <http://grid.hust.edu.cn/platform/CRANE/intro/index.html>).
- Cloud Computing Oriented Resource Management Platform**, (Sep 2007 - Jul 2008): Managing distributed resources in HPC Center and Data Center, such as virtual machine, resource reservation, large-scale deployment, virtual disk, and virtual user space.
- China Education and Research Grid Project - ChinaGrid**, (Sep 2007 - Jul 2008): An important 211 project funded by Chinese Ministry of Education, aims at constructing public service system. The goal of ChinaGrid is to integrate heterogeneous mass resources distributed in the China Education and Research Network (CERNET), share those resources in the CERNET environment effectively and avoid the resource islands, provide useful services, finally form the public platform for research and education in China. (URL: <http://chinagrid.hust.edu.cn>).

PUBLICATIONS

PAPERS

1. **Shadi Ibrahim**, Hai Jin, Lu Lu, Bingsheng He, Song Wu, "Adaptive Disk I/O Scheduling for data-intensive applications in Virtualized Environment", to appear in *40th annual International Conference on Parallel Processing ICPP 2011*.
2. **Shadi Ibrahim**, Bingsheng He, Hai Jin, "Towards Pay-As-You-Consume Cloud Computing". to appear in *Proceedings of IEEE 8th International Conference on Services Computing SCC 2011*.
3. Hai Jin, **Shadi Ibrahim**, Li Qi, Haijun Cao, Song Wu, Xuanhua Shi, "The MapReduce Programming Model and Implementations", *Book Chapter in Cloud Computing: Principles and Paradigms, Wiley Press*, Mar. 2011.
4. **Shadi Ibrahim**, Hai Jin, Lu Lu, Bingsheng He, Li Qi, Song Wu, "LEEN: Locality/Fairness-aware Key Partitioning for MapReduce in the Cloud", in *the 2nd IEEE International Conference on Cloud Computing Technology and Science CloudCom 2010*, Indiana, USA, Dec 2010.
5. Hai Jin, **Shadi Ibrahim**, Tim Bell, Wei Gao, Dachuan Huang, Song Wu, "Cloud Types and Services", in *Book Chapter in the Handbook of Cloud Computing, Springer Press*, Sep. 2010.
6. Hai Jin, **Shadi Ibrahim**, Tim Bell, Li Qi, Haijun Cao, Song Wu, Xuanhua Shi, "Tools and technologies for building the Clouds", in *Book Chapter in Cloud Computing: Principles Systems and Applications, Springer Press*, Aug 2010.
7. **Shadi Ibrahim**, Hai Jin, Lu Lu, Li Qi, Song Wu, Xuanhua Shi, "Evaluating MapReduce on Virtual Machines : The Hadoop Case", in *1st International conference on Cloud Computing CloudCom 2009*, Beijing, China, Dec 2009.
8. **Shadi Ibrahim**, Hai Jin, Cheng bin, HaiJun Cao, Song Wu, Li Qi, "CLOUDLET: Towards MapReduce Implementation on Virtual Machine", Poster Session ,in *18th International Symposium on High Performance Distributed Computing HPDC 2009*, Munich, Germany, Jun 2009.
9. **Shadi Ibrahim**, Hai Jin, Li Qi, Chunqiang Zeng, "Grid Maintenance: Challenges and Existing Models", in *3rd IEEE International Conference on Information & Communication Technologies: from Theory to Applications ICTTA '08*, Damascus, Syria, Apr 2008.
10. **Shadi Ibrahim**, Qingping Guo, "The Implementation of Course Discussion System Using JXTA", in *6th International Conference on Distributed Computing and Applications for business, engineering and sciences DCABES2007*, YiChang, China, Aug 2007.
11. Dachuan Huang, Xuanhua Shi, **Shadi Ibrahim**, Lu Lu, Song Wu, Hai Jin, "MR-Scope: A Real Time Tracing Tool for MapReduce", in *The First International Workshop on MapReduce and its Applications MAPREDUCE'10 in conjunction with ACM HPDC 2010*, Chicago, IL, USA, Jun 2010.

12. Haijun Cao, Hai Jin, Song Wu, **Shadi Ibrahim**, “ImageFlow: Workflow based Image Processing with Legacy Program in Grid”, in *2009 International Conference on Future Information Technology and Management Engineering FITME 2009*, Sanya, China, Dec 2009..
13. Raihan Ur Rasool, Qingping Guo, Guo Yucheng, Zhou Zhen, **Shadi Ibrahim**, “A Proposal of Next Generation Grid-Operating System”, in *The 2005 International Conference on Grid Computing and Applications GCA 2005*, Nevada, USA, Jun 2005.

PENDING PAPERS

14. **Shadi Ibrahim**, Hai Jin, Lu Lu, Bingsheng He, Song Wu, “Maestro:Replica-Aware Map Scheduling for MapReduce”. *Submitted to ApSys 2011*.
15. Haijun Cao, Hai Jin, Song Wu, **Shadi Ibrahim**, “Petri Net based Grid Workflow Verification and Optimization”. *Submitted to Journal of Supercomputing*.

TALKS

CONFERENCE TALKS

1. “Grid Maintenance: Challenges and Existing Models”, *IEEE ICTTA 2008*, Damascus, Syria, Apr 2008.
2. “Evaluating MapReduce on Virtual Machines: The Hadoop Case”, *CloudCom2009*, Beijing, China, Dec 2009.

OTHER TALKS

3. “Cloud Computing: an Overview”, CS, HuaZhong University of Science & Technology, Nov 2008.
4. “Large-Scale Data Computing in the Cloud”, CS, HuaZhong University of Science & Technology, Feb 2009.

TEACHING EXPERIENCE

- **Teaching Assistant, Al-Baath University**, Fall 2002, Spring 2003
C++ Programming: Instructed and guided students in lab assignments. Graded homework, projects, and exams.
- **Teaching Lecturer, Institute of Industrial Technology, Homs**, Fall 2002, Spring 2003
Fundamentals of Computer Science: Instructed lectures on the foundation of computer science. Topics included the binary number system, hexadecimal notation, characters and strings, integers, floating point numbers, Arithmetic Operations: addition, subtraction, Data Storage and Operating System, and as well as labs of basic programming languages include Basic, Pascal, C++ Etc.

PROFESSIONAL SERVICES

- Web Chair of 4th International Conference on Distributed Computing and Applications for Business, Engineering and Sciences (2007).
- External Conference Reviewer- *IEEE CCGrid 2009, CloudCom 2009, DCABES 2007*.
- Member of IEEE (Computer Society) and ACM.

RELEVANT COURSES

- Virtualization Technology, Grid Computing, Distributed Systems, Parallel and Distributed Programming, Computer Architecture, Computer Networks, Internet Security, Internet Protocols, Programming Language Principles, Cryptography, Analysis of Algorithms, Database design, Artificial Intelligence, Stochastic Analyze, Probability and Statistics.