



JUN WANG – Bio Sketch

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Professional Preparations

B.E. Computer Engineering, Wuhan University	1993
M.E Computer Engineering, Huazhong University of Science & Technology	1996
Ph.D. Computer Science & Engineering, Univ. of Cincinnati	2002

Appointments

University of Central Florida(EECS)	Associate Professor	08/2011-present
University of Central Florida(EECS)	Assistant Professor	08/2006-08/2011
University of Nebraska-Lincoln(CSE)	Assistant Professor	08/2002-07/2006
University of Cincinnati	Research Assistant	1999-2002
The Robert Gordon University	Research Assistant	1998-1999
Shenzhen Development Bank	Computer Engineer	1996-1998

Honors and Awards

1. Dean's Research Professorship Award	2013
2. Charles N. Millican Faculty Fellow in EECS at University of Central Florida	2010
3. University of Central Florida Research Incentive Award	2010
4. US National Science Foundation Early Career Award	2009
5. US Dept. of Energy Early Career Principal Investigator Award	2005
6. Layman Award, Junior Faculty at University of Nebraska-Lincoln	2003, 2004
7. Ph.D. Dissertation Award, Dept. of ECECS at University of Cincinnati	2002
8. Senior Member of IEEE	

Five Relevant Products

[1] Saba Sehrish, Grant Mackey, Pengju Shang, Jun Wang, John Bent. Supporting HPC Analytics Applications with Access Patterns using Data restructuring and Data-centric scheduling techniques in MapReduce. IEEE Transactions on Parallel and Distributed Systems. Jan. 2013 (vol. 24 no. 1), ISSN: 1045-9219, pp. 158-169.

[2] Christopher Mitchell, James Ahrens (LANL) and Jun Wang. VisIO: Enabling Interactive Visualization of Ultra-Scale, Time Series Data via High-Bandwidth Distributed I/O Systems. The 25th IEEE International Parallel & Distributed Processing Symposium (IPDPS11) May, 2011, Anchorage, USA.

[3] Saba Sehrish, Grant Mackey, Jun Wang, and John Bent (LANL). MRAP: A Novel MapReduce-based Framework to Support HPC Analytics Applications with Access Patterns. The 19th ACM International Symposium on High Performance Distributed Computing (ACM HPDC10).

[4] Saba Sehrish, Jun Wang and Rajeev Thakur (ANL). Self-detecting Locks to Support MPI-IO Atomicity. EuroPVM/MPI 2009. Espoo, Finland on 7-10 September, 2009.

[5] Peng Gu, Jun Wang and Robert Ross (ANL). Bridging the Gap between Parallel File Systems and Local File Systems: A Case Study with PVFS, The 37th International conference on Parallel Processing 2008. September 8–12, Portland, Oregon, USA (ICPP08).

Five Other Products

[1] Yan Ma, Lizhe Wang, Dingsheng Liu, Peng Liu, Jun Wang, Jie Tao. Generic Parallel Programming for Massive Remote Sensing Data Processing. The IEEE International Conference on Cluster Computing 2012 (Cluster 2012). September 24-28, Beijing, China.

[2] Junyao Zhang, Pengju Shang and Jun Wang. A Scalable Reverse Lookup Scheme using Group-based Shifted Declustering Layout. The 25th IEEE International Parallel & Distributed Processing Symposium (IPDPS11) May 16-20, 2011, Anchorage (Alaska) USA.

[3] Saba Sehrish, and Jun Wang. Reduced Function Set Architecture for MPI-IO. The Journal of Supercomputing 59(1): 131-146 (2012).

[4] Peng Gu, Jun Wang, Yifeng Zhu, Hong Jiang, Pengju Shang. Nexus: A Novel Weighted-Graph-Based Prefetching Algorithm for Metadata Servers in Large Scale Storage Systems, IEEE transactions on computers, Vol. 59, No. 1, pp1-15, January 2010.

[5] Christopher Mitchell, James Nunez (LANL), and Jun Wang. Overlapped Checkpointing with Hardware Assist. The 2009 Workshop on Interfaces and Architectures for Scientific Data Storage. Held in conjunction with IEEE Cluster09.

Synergetic Activities

- **Editorial Activities:** Associate Editor for The IEEE Transactions on Parallel and Distributed Systems since April 2012. Editor on board for The International Journal of Parallel, Emergent and Distributed Systems (IJPEDS) 2010-2012.
- **Panelists and Proposal Reviewers:** DOE ARPA-E Concept Paper Reviewer 2009; NIH Challenge Grant Application Reviewer 2009; NSF CISE Directorate, 2005, 2007, 2008, 2009, 2010, 2012; DOE Early Career Principal Investigator Program 2006; DOE SBIR/STTR Phase I, II 2006, 2007.
- **Program Chairing:** Program committee vice chair for the IEEE ScalCom 2012, December, 2012. Steering committee for the Second International Workshop on Energy Consumption and Reliability of Storage Systems (ERSS 2012), June 5, 2012, San Jose, California, USA. Program committee co-chair (storage track) for the 7th IEEE conference on Network, Architecture and Storage (NAS) in Xiao-Meng, China, June 2012. Program Co-Chair for the 1st international workshop on Storage and I/O Virtualization, Performance, Energy, Evaluation and Dependability, held in conjunction with HPCA'08. The best workshop papers are published in ACM SIGOPS Operating System Review.
- **Conference Session Chairs:** 2007 and 2008 International Conference on Parallel Processing (ICPP07, ICPP08). 2010 ACM/IEEE Greencom, 2011 IEEE NAS.

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- **Program Committee Members:** IC3 2012, GPC 2012, IPDPS11, ICPADS 2010, HiPC 2007, ICCCN 2006, ICPP2006, ICCCN 2005, SNAPI'05, SNAPI'04.

Collaborators during previous 48 months:

John Bent, Los Alamos National Lab; Jitender Deogun, Nebraska; Wuchun Feng, Virginia Tech; Gary Grider, Los Alamos National Lab; Hong Jiang, Nebraska; Julio Lopez, Carnegie Mellon University; James Nunez, Los Alamos National Lab; Robert Ross, Argonne National Lab; David Swanson, Nebraska; Rajeev Thakur, Argonne National Lab; Li Xiao, Michigan State; Peter Varman, Rice; Yifeng Zhu, Maine.

Graduate Advisor: *Professor Yiming Hu*, University of Cincinnati.

Advisees

Alumni: Hailong Cai, Ph.D. 2006; Dong Li, Ph.D. 2006; Xiaoyu Yao, Ph.D. 2007; Peng Gu, Ph.D. 2008; Saba Sehrish (female), Ph.D. , 2010; Pengju Shang, Ph.D. 2011; Christopher Mitchell, Master, 2011; Grant Mackey, Master, 2012; Lu Cheng (female), Master, 2010; Zhengkai Wu (female), Master, 2010; Mao Ye(female), Master, 2010; Sandesh Shankarappa, Master 2009.

Current graduate students: Junyao Zhang, beginning Fall 2009, CS Ph.D. student; Qiangju Xiao (female), beginning Fall 2010, CpE Ph.D. student; Jiangling Yin, beginning Spring 2012, CpE Ph.D. student; **Current undergraduate students:** Alan Birmaher.