



Curriculum Vitae

Faculty Name: Lei Huang **Work Address:** P.O. Box 519; MS 1060
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Position Title: Assistant Professor
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Education:	Degree and Area of Study	Institution Name	Degree Date
	Ph.D. Computer Science	University of Houston	2006
	M.S. Computer Science	Southwest Jiaotong University	1997

Teaching Experience	Position Title	Institution Name	Position Dates (Beginning and End)
	Assistant Professor	Prairie View A&M University	2011 - Present
	Research Assistant Professor	University of Houston	2006 - 2011

Professional Publications: Yuzhong Yan, Mahsa Hanifi, Liqi Yi, and Lei Huang, "Building a Productive Domain-Specific Cloud for Big Data Processing and Analytics Service." *Journal of Computer and Communications*, published in Vol. 3, Issue 5, pp. 107-117. 2015, doi:10.4236/jcc.2015.35014.

Lei Huang and Yonggao Yang, "Facilitating education using cloud computing infrastructure." *Journal of Computer Sciences in Colleges*, published in Vol. 28, Issue 4, April 2013, pp. 19-25.

Yuzhong Yan, Lei Huang, Liqi Yi, "Is Apache Spark Scalable to Seismic Data Analytics and Computations?", *Workshop of Big Data in the Geosciences, 2015 IEEE International Conference on Big Data (IEEE BigData 2015)*, Oct. 29 - Nov. 1, 2015, Santa Clara, CA.

Yuzhong Yan, Lei Huang, "Large-scale Image Processing Research Cloud", In *Proc. of Fifth International Conference on Cloud Computing, GRIDs, and Virtualization (Cloud Computing 2014)*, May 25 - 29, 2014, Venice, Italy

Dongni Han, Shixiong Xu, Li Chen, and Lei Huang, "PADS: A Pattern-Driven Stencil Compiler-Based Tool for Reuse of Optimizations on GPGPUs," *Proceeding of the ICPADS Conference: The 17th IEEE International Conference on Parallel and Distributed Systems*, December 8-9, 2011, Tainan, Taiwan.

Haoqiang Jin, Rupak Biswas, Dennis Jespersen, Piyush Mehrotra, Lei Huang, and Barbara Chapman, "High Performance Computing Using MPI and OpenMP on Multi-core Parallel Systems", *Parallel Computing*, Volume 37, Issue 9, pp. 562-575, September 2011

L. Chen, L. Liu, S. Tang, L. Huang, Z. Jing, S. Xu, D. Zhang, "Unified Parallel C for GPU Clusters: Language Extensions and Compiler Implementation," *Proceeding of the Workshops on Languages and Compilers for Parallel Computing (LCPC 2010)*, Oct. 7-9, Houston, TX

Lei Huang, Haoqiang Jin, Barbara Chapman, and Liqi Yi, "Enabling Locality-Aware Computations in OpenMP", *Journal of Scientific Computing*, Volume 18, Issue 3-4, pp. 169-181, 2010

Lei Huang and Oscar Hernandez and Wei Ding and Barbara Chapman and Richard Graham, "Towards a High-Level GPU Programming Model (Accepted)", *Parallel Computing*,

2010

L. Chen, L. Liu, S. Tang, L. Huang, Z. Jing, S. Xu, D. Zhang, "Unified Parallel C for CPU Clusters: Language Extensions and Compiler Implementation," Proceeding of the Workshops on Languages and Compilers for Parallel Computing (LCPC 2010), Oct. 7-9, Houston, TX

Lei Huang, Deepak Eachempati, Marcus W. Hervey, and Barbara Chapman. "Exploiting Global Optimizations for OpenMP Programs in the OpenUH Compiler", PPOPP'09,

Barbara Chapman, Lei Huang, Eric Biscondi, Eric Stotzer, Ashish Shrivastava, and Alan Gatherer, "Implementing OpenMP on a high performance embedded multicore MPSoC", In IPDPS'09: Proceeding of the 2009 IEEE International Symposium on Parallel & Distributed Processing, pages 1-8, Washington, DC, USA, 2009. IEEE Computer Society.

Barbara Chapman, and Lei Huang, "Enhancing OpenMP and Its Implementation for Programming Multicore Systems", Parallel Computing: Architectures, Algorithms and Applications, volume 38, pp. 3-18, 2008

**Additional
Trainings/Skills:**

Research in Big Data Analytics, Cloud Computing and High Performance Computing