

Hui Lu

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RESEARCH AREAS	System Virtualization, Cloud Computing, Cloud Storage Systems, Operating Systems, Computer Networks	
PROFESSIONAL PREPARATION	Purdue University Ph.D. in Computer Science	August 2012 - August 2017(expected) West Lafayette, IN
	Shanghai Jiao Tong University M.E. in Electronic Engineering	September 2006 - March 2009 Shanghai, China
	Shanghai Jiao Tong University B.E. in Electronic Engineering	September 2002 - July 2006 Shanghai, China
APPOINTMENTS	Assistant Professor Department of Computer Science Binghamton University at SUNY	August 2017 - Present Binghamton, NY
	Research Assistant Department of Computer Science Purdue University	August 2012 - July 2017 West Lafayette, IN
	Research Intern Microsoft Research	June 2016 - September 2016 Redmond, WA
	Research Intern AT&T Research Labs	May 2014 - August 2014 Bedminster, NJ
	Research Intern NEC Laboratories America, Inc.	May 2013 - August 2013 Princeton, NJ
	Performance Engineer Intel Asia-Pacific R&D Center	March 2009 - August 2012 Shanghai, China
SERVICE	TPC Member, IEEE CLOUD TPC Member, International Conference on Computer Communications and Networks (IC-CCN) Submission Site Administrator, ACM Conference on Computer and Communications Security (CCS)	2018 2018 2017
	Journal Reviewer IEEE Transactions on Computers Computers and Electrical Engineering IEEE Transactions on Dependable and Secure Computing	2017 2017 2016

IEEE Internet Computing	2015
ACM Transactions on Autonomous and Adaptive Systems	2015

Conference Reviewer

IEEE International Conference on Cloud Engineering (IC2E)	2017
Network and Distributed System Security Symposium (NDSS)	2017
ACM Conference on Computer and Communications Security (CCS)	2016
International Symposium on Research in Attacks, Intrusions, and Defenses (RAID)	2016
ACM Symposium on High-Performance Parallel and Distributed Computing (HPDC)	2013, 2015, 2016
IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)	2016
International Conference on Parallel Processing (ICPP)	2016
IEEE International Conference on Autonomic Computing (ICAC)	2016
International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD)	2015
Workshop on Hot Topics in Cloud Computing (HotCloud)	2013, 2014
ACM Symposium on Cloud Computing (SOCC)	2014
The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC)	2013
Annual International Conference on Virtual Execution (VEE)	2013

PUBLICATIONS

Peer-Reviewed Articles

H. Lu, B. Saltaformaggio, C. Xu, U. Bellur, D. Xu, “BASS: Improving I/O Performance for Cloud Block Storage via Byte-Addressable Storage Stack”, In *ACM Symposium on Cloud Computing (SOCC '16)*, 2016. Acceptance rate: 25%.

H. Lu, A. Srivastava, B. Saltaformaggio, D. Xu, “StorM: Enabling Tenant-Defined Cloud Storage Middle-Box Services”, In *IEEE/IFIP International Conference on Dependable Systems and Networks (DSN '16)*, 2016. Acceptance rate: 22.3%.

H. Lu, B. Saltaformaggio, R. Kompella, D. Xu, “vFair: Latency-Aware Fair Storage Scheduling via Per-IO Cost-Based Differentiation”, In *ACM Symposium on Cloud Computing (SOCC '15)*, 2015. Acceptance rate: 21.6%.

H. Lu, C. Xu, C. Cheng, R. Kompella, D. Xu, “vHaul: Towards Optimal Scheduling of Live Multi-VM Migration for Multi-tier Applications”, In *IEEE International Conference on Cloud Computing (CLOUD '15, Applications Track)*, 2015. Acceptance rate: 14%.

H. Lu, N. Arora, H. Zhang, C. Lumezanu, J. Rhee, G. Jiang, “Hybnet: Network Manager for a Hybrid Network Infrastructure”, In *ACM/IFIP/USENIX International Middleware Conference (Middleware '13, Industry Track)*, 2013. Acceptance rate: 22.7%.

C. Xu, S. Gamage, **H. Lu**, R. Kompella, D. Xu, “vTurbo: Accelerating Virtual Machine I/O Processing Using Designated Turbo-Sliced Core”, In *USENIX Annual Technical Conference (USENIX ATC '13)*, 2013. Acceptance rate: 14.2%.

H. Lu, Y. Dong, J. Duan, K. Tian, “Virtualization Challenges: a View from Server Consolidation Perspective”, In *ACM SIGPLAN/SIGOPS conference on Virtual Execution Environments (VEE '12)*, 2012. Acceptance rate: 37.7%.

H. Lu, X. Zheng, Z. Huang, J. Duan, “Tackling the Challenges of Server Consolidation on Multi-Core Systems”, In *IEEE International Symposium on Workload Characterization*

(*IISWC '10*), 2010. Acceptance rate: 37.5%.

H. Xiong, **H. Lu**, Y. Zhang, L. Song, Z. He, T. Chen, “Subgraphs Matching-Based Side Information Generation for Distributed Multiview Video Coding”, In *EURASIP Journal on Advances in Signal Processing*, 2010.

X. Zhen, J. Duan, S. F. Akhter, Z. Yu, and **H. Lu**, “A Consolidation Workload Characterization Study on Modern Platform”, In *International Computer Measurement Group (CMG) Conference*, 2009.

H. Lu, H. Xiong, L. Song, Z. He, T. Chen, “Graph Matching Based Side Information Generation for Distributed Multi-View Video Coding”, In *IEEE International Conference on Communications (ICC '09)*, 2009.

H. Lu, H. Xiong, Y. Zhang, Z. He, “Side Information Generation with Constrained Relaxation for Distributed Multi-View Video Coding”, In *IEEE International Symposium on Circuits and System (ISCAS '08)*, 2008.

Y. Zhang, H. Xiong, S. Yu, **H. Lu**, “A Source-Driven Error Recovery Scheme using Wyner-Ziv Coding”, In *IEEE International Conference Multimedia and Expo (ICME '07)*, 2007.

Theses

H. Lu, “Improving Fairness, Reliability and Efficiency of Cloud Storage Systems”, Ph.D. Dissertation in *Purdue University Theses and Dissertations*, 2017.

H. Lu, “Side Information Generation for Distributed Multi-view Video Coding”, Master Thesis in *Shanghai Jiao Tong University Theses and Dissertations*, 2009.