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RESEARCH INTERESTS	My research interests include cyber-physical systems, mobile ubiquitous computing, crowd and social sensing, big data analytics, cloud computing, and quantum computing.	
Work	IBM T. J. Watson Research Center, Yorktown H Research Staff Member	feights, NY March 2017–Present
	IBM T. J. Watson Research Center, Yorktown H Postdoctoral Researcher	Seights, NY September 2016–March 2017
	University of Illinois at Urbana-Champaign, Urba	bana, IL January 2012–December 2016
	<b>Intel Corporation</b> - New Devices Group, Santa Clar Graduate Intern Technical	a, CA May 2014–September 2014
	University of Illinois at Urbana-Champaign, Urba	bana, IL August 2011–December 2011
	Dartmouth College, Hanover, NH Teaching Assistant	September 2008–September 2010
	University of Massachusetts at Amherst, Amher Teaching Assistant	st, MA January 2008–May 2008
EDUCATION	<b>PhD</b> , Computer Science University of Illinois at Urbana-Champaign, IL USA	May 2017
	MS, Computer Science Dartmouth College, NH USA	June 2011
	<b>BS</b> , Computer Science, Mathematics and Statistics University of Massachusetts at Amherst, MA USA	May 2008
SERVICES	Technical Program Committee The Web Conference (WWW)	

IEEE International Workshop on Mission-Oriented Wireless Sensor	
and Cyber-Physical System Networking (MISENET)	2018
ACM/IEEE International Conference on Information Processing in Sensor	
Networks - Posters (IPSN Posters)	2016
Conference Reviewer  ACM Intermediated Conference on Makila Commuting and Naturalism (ManyCon)	010 2010
ACM International Conference on Mobile Computing and Networking (MOBICOM)2 International Symposium on Modeling and Optimization in Mobile,	
Ad Hoc and Wireless Networks (WIOPT)	
ACM International Conference on Embedded Networked Sensor Systems (SenSys) 2 ACM/IEEE International Conference on Information Processing in Sensor Networks	
(IPSN)	
International Conference on Decision and Control (CDC)	
International Symposium on Mobile Ad Hoc Networking and Computing (MOBIHOC)	
IEEE International Conference on Computer Communications (INFOCOM)	
IEEE International Conference on Distributed Computing Systems (ICDCS)	
IEEE International Conference on Communications (ICC)	
International Conference on Connected Vehicles & Expo (ICCVE)	
Military Communications Conference (MILCOM)	
IEEE International Conference on Sensing, Communication, and Networking (SECON)	
IEEE International Conference on Data Mining (ICDM)	
International Conference on Computing and Convergence Technology (ICCCT)	2013
ACM International Conference on Ubiquitous Computing (UBICOMP)	2012
Journal Reviewer	
Proceedings of the ACM on Interactive, Mobile, Wearable	
and Ubiquitous Technologies (IMWUT)2	017, 2018
IEEE Transactions on Mobile Computing (TMC)	2014-2018
IEEE/ACM Transactions on Networking (TON)	
Knowledge-Based Systems	017, 2018
Sensors	2016-2018
Applied Sciences	2018
Algorithms	
IEEE Transactions on Services Computing (TSC)	2017
IEEE Transactions on Computers (TC)	
Current Signal Transduction Therapy (CSTT)	
Computer Networks (COMNET)	
Ain Shams Engineering Journal	
Computers	$\dots 2017$
ACM Transactions on Sensor Networks (TOSN)	
ACM Transactions on Cyber-Physical Systems (TCPS)	
Frontiers of Information Technology & Electronic Engineering	
Mobile Information Systems	2016
IEEE Transactions on Wireless Communications (TWC)	
IEEE Transactions on Industrial Informatics (TII)	
Ad Hoc & Sensor Wireless Networks	
International Journal of Geo-Information	2012

# Publications

ICDCS 2019

Tarek Abdelzaher, Shuochao Yao, Yifan Hao, Yiran Zhao, Ailing Piao, Huajie Shao, Dongxin Liu, Shengzhong Liu, **Shaohan Hu**, Dulanga Weerakoon, Kasthuri Jayarajah, Archan Misra, *Eugene: Towards Deep Intelligence as a Service*, The 39th IEEE International Conference on Distributed Computing Systems (ICDCS 2019), Dallas, Texas USA. July 7–10, 2019.

- COMPUTER 2019B Peng Liu, **Shaohan Hu**, Marco Pistoia, Chun-Fu Richard Chen, Jay Gambetta Stochastic Optimization of Quantum Programs, IEEE Computer, Special Issue on A Realistic Future for Quantum Computing, Accepted, June, 2019.
- COMPUTER 2019A Shaohan Hu, Peng Liu, Chun-Fu Richard Chen, Marco Pistoia, Jay Gambetta Reduction-based Problem Mapping for Quantum Computing, IEEE Computer, Special Issue on A Realistic Future for Quantum Computing, Accepted, June, 2019.
- DAC 2019 Shaohan Hu, Dmitri Maslov, Marco Pistoia, and Jay Gambetta, Efficient Circuits for Quantum Search over 2D Square Lattice Architecture, The 56th Design Automation Conference Latest Breaking Results (DAC 2019 LBR), Las Vegas, Nevada USA, June 2–6, 2019.
- WWW 2019 Shuochao Yao, Ailing Piao, Wenjun Jiang, Yiran Zhao, Huajie Shao, Shengzhong Liu, Dongxin Liu, Jinyang Li, Tianshi Wang, **Shaohan Hu**, Lu Su, Jiawei Han, Tarek Abdelzaher, *STFNets: Learning Sensing Signals from the Time-Frequency Perspective with Short-Time Fourier Neural Networks*, The Web Conference (WWW 2019), San Francisco, CA USA, May 13–17, 2019.
- INFOCOM 2019 Shuochao Yao, Yiran Zhao, Huajie Shao, Dongxin Liu, Shengzhong Liu, Yifan Hao, Ailing Piao, Shaohan Hu, Lu Su, Tarek Abdelzaher, SADeepSense: Self-Attention Deep Learning Framework for Heterogeneous On-Device Sensors in Internet of Things Applications, The 38th IEEE International Conference on Computer Communications (INFOCOM 2019), Paris, France, April 29–May 2, 2019.
- IMWUT 2018 Shuochao Yao, Yiran Zhao, Huajie Shao, Chao Zhang, Aston Zhang, **Shaohan Hu**, Dongxin Liu, Shengzhong Liu, Lu Su, Tarek F. Abdelzaher, SenseGAN: Enabling Deep Learning for Internet of Things with a Semi-Supervised Framework, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Volume 2 Issue 3, Article No. 144, Presented at UbiComp, Singapore, September, 2018. Presented at UbiComp, Singapore, October 9–11, 2018.
- ICSE 2018 Shaohan Hu, Peng Liu, Chun-Fu Richard Chen, Marco Pistoia, Automatically Solving NP-Complete Problems on a Quantum Computer, The 40th International Conference on Software Engineering (ICSE 2018) Posters, Gothenburg, Sweden, May 27–June 3, 2018.
- EMDL 2018 Shuochao Yao, Yiran Zhao, **Shaohan Hu**, Tarek F. Abdelzaher, *QualityDeepSense: Quality-Aware Deep Learning Framework for Internet of Things Applications with Sensor-Temporal Attention*, The 2nd International Workshop on Embedded and Mobile Deep Learning (EMDL 2018), Munich, Germany, June 15, 2018.
- COMPUTER 2018 Shuochao Yao, Yiran Zhao, Aston Zhang, **Shaohan Hu**, Huajie Shao, Chao Zhang, Lu Su, Tarek Abdelzaher, *Deep Learning for the Internet of Things*, IEEE Computer, Volume 51 Number 05, May, 2018.
- TPDS 2018 Wenjun Jiang, Chenglin Miao, Lu Su, Qi Li, **Shaohan Hu**, Shiguang Wang, Jing Gao, Hengchang Liu, Tarek F. Abdelzaher, Jiawei Han, Xue Liu, Yan Gao, Lance Kaplan, *Towards Quality Aware Information Integration in Distributed Sensing Systems*, IEEE Transactions on Parallel and Distributed Systems (IEEE TPDS), Volume 12 Number 1, January, 2018.
- JSAN 2018

  Jongdeog Lee, Kelvin Marcus, Tarek Abdelzaher, Md Tanvir A. Amin, Amotz Bar-Noy, William Dron, Ramesh Govindan, Reginald Hobbs, **Shaohan Hu**, Jung-Eun Kim, Lui Sha, Shuochao Yao, and Yiran Zhao, Athena: Towards Decision-Centric Anticipatory Sensor Information Delivery, Journal of Sensor and Actuator Networks (JSAN), Volume 7 Number 1, Article Number 5, January, 2018.

- IMWUT 2017 Yiran Zhao, Shuochao Yao, Shen Li, Shaohan Hu, Huajie Shao, Tarek Abdelzaher, VibeBin: A Vibration-Based Waste Bin Level Detection System, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Volume 1 Issue 3, Article No. 122, Presented at UbiComp, Maui, HI USA, September, 2017.
- TCPS 2017 Hongwei Wang, Yunlong Gao, **Shaohan Hu**, Shiguang Wang, Renato Mancuso, Minje Kim, Poliang Wu, Lu Su, Lui Sha, Tarek Abdelzaher, *On Exploiting Structured Human Interactions to Enhance Sensing Accuracy in Cyber-physical Systems*, ACM Transactions on Cyber-Physical Systems (IEEE TCPS), Volume 1, Number 3, July, 2017.
- Tarek Abdelzaher, Md Tanvir Al Amin, Amotz Bar-Noy, William Dron, Ramesh Govindan, Reginald Hobbs, **Shaohan Hu**, Jung-Eun Kim, Jongdeog Lee, Kelvin Marcus, Shuochao Yao and Yiran Zhao, Decision-driven Execution: A Distributed Resource Management Paradigm for the Age of IoT, The 37th International Conference on Distributed Computing Systems (ICDCS 2017), Atlanta, GA USA. June 5–8, 2017.
- ICDCS 2017 Shen Li, Md Tanvir Al Amin, Raghu Ganti, Mudhakar Srivatsa, **Shaohan Hu**, Yiran Zhao and Tarek Abdelzaher, *Stark: Optimizing In-Memory Computing For Dynamic Dataset Collections*, The 37th International Conference on Distributed Computing Systems (ICDCS 2017), Atlanta, GA USA, June 5–8, 2017.
- VTC 2017 Yunfei Hou, Abhishek Gupta, Tong Guan, **Shaohan Hu**, Lu Su, Chunming Qiao, *VehSense: Slippery Road Detection Using Smartphones*, The IEEE 85th Vehicular Technology Conference (VTC 2017), Sydney, Australia, June 4–7, 2017.
- TMC 2017 Chao Xu, **Shaohan Hu**, Wei Zheng, Tarek F. Abdelzaher, Pan Hui, Zhiheng Xie, Hengchang Liu, and John Stankovic, *Efficient 3G/4G Budget Utilization in Mobile Sensing Applications*, IEEE Transactions on Mobile Computing (IEEE TMC), Volume 16, Number 6, June, 2017.
- Yiran Zhao, Shen Li, **Shaohan Hu**, Lu Su, Shuochao Yao, Huajie Shao and Tarek Abdelzaher, GreenDrive: A Smartphone-based Intelligent Speed Adaptation System With Real-time Traffic Signal Prediction, The 8th International Conference on Cyber-Physical Systems (ICCPS 2017), Pittsburgh, PA USA, April 18–21, 2017. (**Best paper award**)
- WWW 2017 Shuochao Yao, **Shaohan Hu**, Yiran Zhao, Aston Zhang, Tarek Abdelzaher, *DeepSense: A Unified Deep Learning Framework for Time-Series Mobile Sensing Data Processing*, The 26th International International World Wide Web Conference (WWW 2017), Perth, Australia, April 3–7, 2017.
- TMC 2016B Xiaoshan Sun, **Shaohan Hu**, Lu Su, Tarek F. Abdelzaher, Pan Hui, Wei Zheng, Hengchang Liu, John Stankovic, *Participatory Sensing Meets Opportunistic Sharing: Automatic Phone-to-Phone Communication in Vehicles*, IEEE Transactions on Mobile Computing (IEEE TMC), Volume 15, Number 10, October, 2016.
- VLDB 2016 Yiran Zhao, Shen Li, **Shaohan Hu**, Hongwei Wang, Shuochao Yao, Huajie Shao, Tarek Abdelzaher, An Experimental Evaluation of Datacenter Workloads On Low-Power Embedded Micro Servers, The 42nd International Conference on Very Large Data Bases (VLDB 2016), New Delhi, India, September 5–9, 2016.
- ICCM 2016 Christian Lebiere, Don Morrison, Tarek Abdelzaher, **Shaohan Hu**, Cleotilde Gonzalez, Norbou Buchler, Vladislav D. Veksler, *Cognitive Models of Prediction as Decision Aids*, The 14th International Conference on Cognitive Modeling (ICCM 2016), College Park, PA USA, August 4–6, 2016.

ICDCS 2016 Shuochao Yao, **Shaohan Hu**, Shen Li, Yiran Zhao, Lu Su, Lance Kaplan, Aylin Yener, Tarek F. Abdelzaher, On Source Dependency Models for Reliable Social Sensing: Algorithms and Fundamental Error Bound, The 36th IEEE International Conference on Distributed Computing Systems (ICDCS 2016), Nara, Japan, June 27–30, 2016.

IPSN 2016 Shuochao Yao, Md Tanvir Amin, Lu Su, **Shaohan Hu**, Shen Li, Shiguang Wang, Yiran Zhao, Tarek Abdelzaher, Lance Kaplan, Charu Aggarwal, Aylin Yener, *Recursive Ground Truth Estimator for Social Data Streams*, The 15th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2016), Vienna, Austria, April 11–14, 2016.

TMC 2016A Fatemeh Saremi, Omid Fatemieh, Hossein Ahmadi, Hongyan Wang, Tarek Abdelzaher, Raghu Ganti, Hengchang Liu, **Shaohan Hu**, Shen Li, Lu Su, Experiences with GreenGPS – Fuel-Efficient Navigation using Participatory Sensing, IEEE Transactions on Mobile Computing (IEEE TMC), Volume 15, Number 3, March 2016.

RTSS 2015 Shaohan Hu, Shuochao Yao, Haiming Jin, Yiran Zhao, Yitao Hu, Xiaochen Liu, Nooreddin Naghibolhosseini, Shen Li, Akash Kapoor, William Dron, Lu Su, Amotz Bar-Noy, Pedro Szekely, Ramesh Govindan, Reginald Hobbs, Tarek F. Abdelzaher, *Data Acquisition for Real-time Decision-making under Freshness Constraints*, The 36th IEEE Real-Time Systems Symposium (RTSS 2015), San Antonio, TX USA, December 1–4, 2015.

JRTS 2015 Dong Wang, Tarek Abdelzaher, Lance Kaplan, Raghu Ganti, **Shaohan Hu**, Hengchang Liu, *Reliable Social Sensing with Physical Constraints: Analytic Bounds and Performance Evaluation*, Journal of Real-Time Systems, Volume 51, Number 6, November, 2015

Shaohan Hu, Lu Su, Shen Li, Shiguang Wang, Chenji Pan, Siyu Gu, Md Tanvir Amin, Hengchang Liu, Suman Nath, Romit Roy Choudhury, Tarek F. Abdelzaher, Experiences with eNav: A Low-power Vehicular Navigation System, The ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2015), Osaka, Japan, September 7–11, 2015.

ATC 2015

Shen Li, **Shaohan Hu**, Raghu Ganti, Mudhakar Srivatsa, Tarek Abdelzaher, *Pyro: A Spatial-Temporal Big-Data Storage System for Dynamic Workload Hotspots*, USENIX Annual Technical Conference (USENIX ATC 2015), Santa Clara, CA USA, July 8–10, 2015.

TOSN 2015 Shaohan Hu, Lu Su, Hengchang Liu, Hongyan Wang, Tarek F. Abdelzaher, SmartRoad: Smartphone-based Crowd Sensing for Traffic Regulator Detection and Identification, ACM Transactions on Sensor Networks (ACM TOSN), Volume 11, Number 4, July 2015.

DCOSS 2015 Shaohan Hu, Shen Li, Shuochao Yao, Lu Su, Ramesh Govindan, Reginald Hobbs, Tarek F. Abdelzaher, On Exploiting Logical Dependencies for Minimizing Additive Cost Metrics in Resource-Limited Crowdsensing, The 11th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2015), Fortaleza, Brazil, June 10–12, 2015.

IPSN 2015 Shiguang Wang, Lu Su, Shen Li, **Shaohan Hu**, Tanvir Amin, Hongwei Wang, Shuochao Yao, Lance Kaplan, Tarek Abdelzaher, *Scalable Social Sensing of Interdependent Phenomena*, The 14th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2015), Seattle, WA USA, April 13–17, 2015.

RTAS 2015 Shen Li, **Shaohan Hu**, Tarek Abdelzaher, *The Packing Server for Real-time Scheduling of MapReduce Workflows*, The 21st IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS 2015), Seattle, WA USA, April 13–16, 2015.

- Yunlong Gao, **Shaohan Hu**, Renato Mancuso, Hongwei Wang, Minje Kim, PoLiang Wu, Lu Su, Lui Sha, Tarek Abdelzaher, *Exploiting Structured Human Interactions to Enhance Estimation Accuracy in Cyber-physical Systems*, The 6th International Conference on Cyber-Physical Systems (ICCPS 2015), Seattle, WA USA, April 14–16, 2015.
- RTSS 2014 Lu Su, Qi Li, **Shaohan Hu**, Shiguang Wang, Jing Gao, Hengchang Liu, Tarek Abdelzaher, Jiawei Han, Xue Liu, Yan Gao, Lance Kaplan, *Generalized Decision Aggregation in Distributed Sensing Systems*, The 35th IEEE Real-Time Systems Symposium (RTSS 2014), Rome, Italy, December 2–5, 2014.
- ICDCS 2014 Shen Li, **Shaohan Hu**, Shiguang Wang, Lu Su, Tarek F. Abdelzaher, Indranil Gupta, Richard Pace, WOHA: Deadline-Aware Map-Reduce Workflow Scheduling Framework over Hadoop Cluster, The 34th International Conference on Distributed Computing Systems (ICDCS 2014), Madrid, Spain. June 30–July 3, 2014.
- ICAC 2014 Shen Li, **Shaohan Hu**, Shiguang Wang, Siyu Gu, Chenji Pan, Tarek F. Abdelzaher, *WattValet: Heterogenous Energy Storage Management in Data Centers for Improved Power Capping*, The 11th International Conference on Autonomic Computing (ICAC 2014), Philadelphia, PA USA, June 18–20, 2014.
- DCOSS 2014 Siyu Gu, Chenji Pan, Hengchang Liu, Shen Li, **Shaohan Hu**, Lu Su, Shiguang Wang, Dong Wang, Md Tanvir A Amin, Ramesh Govindan, Charu Aggarwal, Raghu Ganti, Mudhakar Srivatsa, Amotz Bar-Noy, Peter Terlecky, Tarek Abdelzaher, *Data Extrapolation in Social Sensing for Disaster Response*, The 10th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2014), Marina Del Rey, CA USA, May 26–28, 2014.
- Shaohan Hu, Hengchang Liu, Lu Su, Hongyan Wang, Tarek F. Abdelzaher, Pan Hui, Wei Zheng, Zhiheng Xie, John Stankovic, *Towards Automatic Phone-to-Phone Communication for Vehicular Networking Applications*, The 33rd IEEE International Conference on Computer Communications (INFOCOM 2014), Toronto, Canada, April 27–May 2, 2014.
- Shaohan Hu, Lu Su, Shen Li, Shiguang Wang, Chenji Pan, Siyu Gu, Md Tanvir Al Amin, Hengchang Liu, Suman Nath, Romit Roy Choudhury, Tarek F. Abdelzaher, *Poster Abstract: eNav a Smartphone-based Energy Efficient Vehicular Navigation System*, The 13th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2014), Berlin, Germany, April 15–17, 2014. (Best poster award)
- PUC 2014 Nicholas D. Lane, Ye Xu, Hong Lu, **Shaohan Hu**, Tanzeem Choudhury, Andrew T. Campbell, Feng Zhao, *Community Similarity Networks*, ACM/Springer Journal of Personal and Ubiquitous Computing (PUC), Special Issue on Cross-Community Mining, February, 2014.
- RTSS 2013 Dong Wang, Tarek F. Abdelzaher, Lance Kaplan, Raghu Ganti, **Shaohan Hu**, Hengchang Liu, Exploitation of Physical Constraints for Reliable Social Sensing, The 34th IEEE Real-Time Systems Symposium (RTSS 2013), Vancouver, Canada, December 4–6, 2013.
- SENSYS 2013 Hengchang Liu, Siyu Gu, Chenji Pan, Wei Zheng, Shen Li, **Shaohan Hu**, Shiguang Wang, Dong Wang, Tanvir Amin, Lu Su, Zhiheng Xie, Ramesh Govindan, Charu Aggarwal, Amotz Barnoy, Tarek F. Abdelzaher, *Demo Abstract: Extrapolation from Participatory Sensing Data*, The 11th ACM Conference on Embedded Networked Sensor Systems (SenSys 2013), Rome, Italy, November 11–15, 2013.

ICCCN 2013

Shiguang Wang, **Shaohan Hu**, Shen Li, Hengchang Liu, Md Yusuf Sarwar Uddin, and Tarek F. Abdelzaher, *MINERVA: Information-Centric Programming for Social Sensing*, The 22nd International Conference on Computer Communications and Networks (ICCCN 2013), Nassau, Bahamas, July 30–August 2, 2013.

**ICDCS 2013** 

Shen Li, Shiguang Wang, Fan Yang, **Shaohan Hu**, Fatemeh Saremi, Tarek F. Abdelzaher, *Proteus: Power Proportional Memory Cache Cluster in Data Centers*, The 33rd International Conference on Distributed Computing Systems (ICDCS 2013), Philadelphia, PA USA, July 8–11, 2013.

Infocom 2013

Hengchang Liu, **Shaohan Hu**, Wei Zheng, Zhiheng Xie, Shiguang Wang, Pan Hui, and Tarek F. Abdelzaher, *Efficient 3G Budget Utilization in Mobile Participatory Sensing Applications*, The 32nd IEEE International Conference on Computer Communications (INFOCOM 2013), Turin, Italy, April 14–19, 2013.

IPSN 2013

Shaohan Hu, Lu Su, Hengchang Liu, Hongyan Wang, Tarek F. Abdelzaher, *Poster Abstract: SmartRoad: A Crowd-Sourced Traffic Regulator Detection and Identification System*, The 12th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2013), Philadelphia, PA USA, April 8–11, 2013.

RTSS 2012

Lu Su, **Shaohan Hu**, Shen Li, Feng Liang, Jing Gao, Tarek F. Abdelzaher, and Jiawei Han, *Quality of Information based Data Selection and Transmission in Wireless Sensor Networks*, The 33rd IEEE Real-Time Systems Symposium (RTSS 2012), San Juan, Puerto Rico, December 4–7, 2012.

UBICOMP 2011

Nicholas D. Lane, Ye Xu, Hong Lu, **Shaohan Hu**, Tanzeem Choudhury, Andrew T. Campbell, and Feng Zhao, *Enabling Large-scale Human Activity Inference on Smartphones using Community Similarity Networks (CSN)*, The 13th International Conference on Ubiquitous Computing (UbiComp 2011), Beijing, China, September 17–21, 2011. (**Best paper nominee**)

MobiHeld 2010

Andrew T. Campbell, Tanzeem Choudhury, **Shaohan Hu**, Hong Lu, Matthew K. Mukerjee, Mashfiqui Rabbi, and Rajeev D. S. Raizada, *NeuroPhone: Brain-Mobile Phone Interface using a Wireless EEG Headset*, The 2nd ACM SIGCOMM Workshop on Networking, Systems, and Applications on Mobile Handhelds (MobiHeld 2010), New Delhi, India, August 30, 2010.

PAKDD 2010

Pallika Kanani, Andrew McCallum and **Shaohan Hu**, Resource-bounded Information Extraction: Acquiring Missing Feature Values On Demand, The 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2010), Hyderabad, India. June 21–24, 2010. (**Best student paper runner-up award**)

Teaching

# University of Illinois at Urbana-Champaign

• Teaching Assistant

CS 125: Introduction to Computer Science Basic Data Structure, Algorithm, OOP using Java

# **Dartmouth College**

• Teaching Assistant

CS 23: Software Design and Implementation — or, how to be a hacker Linux Bash scripting, design and implementation using C: web search (data crawling, indexing, and querying), and embedded Linux environment distributed concurrent system (remote robot control system)

# • Teaching Assistant

CS 8: Problem Solving with Computer Science Functional programming, Haskell language

#### • Teaching Assistant

CS 5: Introduction to Computer Science Basic Data Structure, OOP using Java

# • Teaching Assistant

CS 4: Concepts in Computing

Overview of computing and computer science, basic programming using html/css/javascript, debugging, design

### University of Massachusetts at Amherst

# • Teaching Assistant

Math 300: Fundamental Concepts of Mathematics Discrete mathematics, number theory, logics, set theory, rigorous proofs

### • Teaching Assistant

CS 311: Introduction to Algorithms

Basic algorithm design, analysis, and implementations, sorting, searching, string processing, graphs

Press

News Bureau - Illinois, New mobile app expands the outreach of SAWBO videos, May 2015

CBS News, The Next Step in Bionics, October 2011

The New York Times Magazine, The Cyborg in Us All, October 2011

TECHNOLOGY REVIEW, Mobile Phone Mind Control, March 2010

Awards and Honors ICCPS Best Paper Award, April 2017

IPSN Best Poster Award, April 2014

Teachers Rated Excellent, Department of Computer Science, UIUC, March 2012

UBICOMP Best Paper Nominee, September 2011

Best TA, Department of Computer Science, Dartmouth College, September 2010

PAKDD Best Student Paper Runner-up, June 2010

Outstanding Graduate Student Teacher, Dartmouth Center for the Advancement of Learning, Dartmouth College, April 2010

CSEM (Computer Science, Engineering and Mathematics) Scholarship, UMass Amherst, January 2005–May 2008

Dean's List Honors, UMass Amherst, January 2005–May 2008

Barksdale Scholarship, UMass Amherst, March 2007

First Place Winner, Henry Jacob Mathematics Competition, UMass Amherst, March 2006

Second Place Winner, Henry Jacob Mathematics Competition, UMass Amherst, March 2005

WORK AUTHORIZATION U.S. Citizen