

WEN SHEN

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Research Interests	Artificial Intelligence, Algorithmic Economics, Interactive Machine Learning, and Human-Machine Interaction	
Education	Doctor of Philosophy, Information and Computer Science	June, 2019 (Expected)
	University of California, Irvine, USA	
	Advisor: Cristina V. Lopes	
	GPA: 3.96/4.0	
	Master of Science, Computing and Information Science	June, 2013
	Masdar Institute of Science and Technology, Abu Dhabi, UAE	
	Advisor: Jacob W. Crandall	
	Bachelor of Engineering, Software Engineering	July, 2009
	Northwestern Polytechnical University, Xi'an, China	
Professional Experience	Graduate Student Researcher	June 2015 - Present
	Mondego Group, University of California, Irvine	Irvine, USA
	Reader/Teaching Assistant	Sept. 2014 - June 2015
	Department of Informatics, University of California, Irvine	Irvine, USA
	Research Engineer	Aug. 2013 - Aug. 2014
	Building Technology Research Center, Masdar Institute	Abu Dhabi, UAE
	Research Assistant	Sept. 2011 - June 2013
	Distributed Human-Machine Systems Lab, Masdar Institute	Abu Dhabi, UAE
Research Projects	Information Design for Dynamic Environment (Feb. 2016 - Present)	
	Managing Autonomous Mobility on Demand Systems for Social Good (Sept. 2014 - Present)	
	Monitoring and Predictive Maintenance of Buildings and Building Systems (Aug. 2013 - Aug. 2014)	
	Tradeoffs in Regulating Highly Automated Machine Ecologies (Oct. 2011 - July 2013)	
	Electricity Demand Time Series Forecasting (June 2012 - Jan. 2013)	

Publications

1. K. Yan, Z. Ji, **W. Shen**: *Online Fault Detection Methods for Chillers Combining Extended Kalman Filter and Recursive One-class SVM*. Neurocomputing.
2. **W. Shen**, C.V. Lopes, J.W. Crandall: *An Online Mechanism for Ridesharing in Autonomous Mobility-on-Demand Systems*. In Proceedings of the 25th International Joint Conference on Artificial Intelligence (*IJCAI 2016*, New York City, NY).
3. **W. Shen**, C. V. Lopes: *Managing Autonomous Mobility on Demand Systems for Better Passenger Experience*. In Proceedings of the 18th Conference on Principles and Practice of Multi-Agent Systems (*PRIMA 2015*, Bertinoro, Italy).
4. T. Mulumba, A. Afshari, K. Yan, **W. Shen**, L. K. Norford: *Robust Model-based Fault Diagnosis for Air Handling Units*. Energy and Buildings, Vol.86(2015), pp. 698-707.
5. K. Yan, **W. Shen**, T. Mulumba, A. Afshari: *ARX Model Based Fault Detection and Diagnosis for Chillers using Support Vector Machines*. Energy and Buildings, vol.81(2014), pp. 287-295.
6. **W. Shen**, V. Babushkin, Z. Aung, W.L. Woon: *An Ensemble Model for Day-ahead Electricity Demand Time Series Forecasting*. In Proceedings of the 4th ACM International Conference on Future Energy Systems (ACM *e-Energy'13*, Berkeley, CA), pp. 51-62, 2013.
7. W. Zheng, **W. Shen**, Y. Zhang: *Implementing Spam Filter by Improving Naïve Bayesian Algorithm*. Journal of Northwestern Polytechnical University, vol.28, no.4, pp. 622–627, 2010 (In Chinese).
8. **W. Shen**: *Regulating Self-Adaptive Multi-Agent Systems with Real-Time Interventions*. Master Thesis, Masdar Institute of Science and Technology, June 2013.

Service & Membership

Conference Reviewer: CHI 2017, HRI 2017, 2016
Journal Reviewer: International Journal of Electrical Power & Energy Systems, 2013
Student Member: Association for Computing Machinery (2013-Present)
Member: Institute for Software Research, UC Irvine (2014-Present)

Honors & Awards

Chair's Award, Department of Informatics, University of California, Irvine, 2014
Student Travel Grant (US\$2,500), Masdar Institute of Science and Technology, 2013
Fellowship, Masdar Institute of Science and Technology, 2011-2013
Best Bachelor Thesis Award, Northwestern Polytechnical University, 2009
National Endeavor Scholarship, Ministry of Education of China, 2008
Academic Excellence Scholarship, Northwestern Polytechnical University, 2006-2008

Skills

Java, Python, C/C++, Matlab, MySQL, JavaScript.

References

Available upon request