

WEN SHEN

✉ University of California, Irvine • ICS408B • Irvine, CA 92697
☎ (949) 690-8955 | ✉ wen@wenshum.com | 🏠 wenshum.com

Research Interests

Human-Machine Interaction, Signaling Theory, Mechanism Design, Sequential Decision Making

Education

University of California, Irvine

Irvine, CA

Ph.D in Information and Computer Science

Sept.2014 - June 2019

- Topic: Automated Incentive Design for Social Good.

Masdar Institute of Science and Technology

Abu Dhabi, UAE

M.S. in Computing and Information Science

Sept.2011 - June 2013

- Thesis: *Regulating Self-Adaptive Multi-Agent Systems with Real-Time Interventions.*

Northwestern Polytechnical University

Xi'an, China

B.E. in Software Engineering

Sept.2005 - July 2009

Professional Experience

University of California, Irvine

Irvine, CA

Graduate Student Researcher

Sept. 2014 - Present

- Project: *Managing Autonomous Mobility-on-Demand Systems for Social Good.*

Masdar Institute of Science and Technology

Abu Dhabi, UAE

Research Engineer

Aug. 2013 - Aug. 2014

- Project: *Monitoring and Predictive Maintenance of Buildings and Building Systems.*

Masdar Institute of Science and Technology

Abu Dhabi, UAE

Research Assistant

Sept. 2011 - May 2013

- Project: *Trade-offs in Regulating Highly Automated Machine Ecologies.*
-

Selected Publications

1. K. Yan, Z. Ji, **W. Shen**: *Online Fault Detection Methods for Chillers Combining Extended Kalman Filter and Recursive One-class SVM*. **Neurocomputing**, Vol.228 (2017), pp. 205-212.
 2. **W. Shen**, C.V. Lopes, J.W. Crandall: *An Online Mechanism for Ridesharing in Autonomous Mobility-on-Demand Systems*. **IJCAI 2016**.
 3. **W. Shen**, C. V. Lopes: *Managing Autonomous Mobility on Demand Systems for Better Passenger Experience*. **PRIMA 2015**.
 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*. **ACM e-Energy'13**.
-

Professional Service

Program Committee: INTELLI 2017

Reviewer: CHI 2017, HRI 2016-2017, JEPE 2013

Skills

Languages: Python, Java, C/C++, JavaScript

Others: TensorFlow, ROS, Gazebo, Qt, OpenGL, MySQL

Honors and 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