Dezhi Hong

Contact Information

Halıcıoğlu Data Science Institute
University of California, San Diego
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Research Interests

Cyber-Physical Systems, Energy-efficient Systems, Applied Machine Learning, Sustainability

Education

University of Virginia, Charlottesville, VA 09/2012 - 10/2018
Ph.D., Computer Science
Dissertation: *Towards Automatic Context Inference for Sensors in Commercial Buildings* (link)
Advisor: Kamin Whitehouse
Additional thesis committee members: Jack Stankovic (Chair), John Lach, Hongning Wang, Quanquan Gu, David Culler

Beijing University of Posts and Telecommunications, Beijing, China 09/2008 - 06/2012
B.S., Electrical Engineering
Thesis: *Design and Implementation of an RFID-based Indoor Localization System*

Professional Experience

University of California, San Diego, CA
Research Scientist, Halıcıoğlu Data Science Institute 11/2020 - Present
Postdoctoral Scholar, Computer Science & Engineering 12/2018 - 10/2020
Supervisor: Rajesh K. Gupta
Manage the research of a group of 10 PhD students (3 graduated) and over a dozen Master's and undergraduate students working on projects ranging from neural network approximation and acceleration to embedded system deployment and optimization, smart building infrastructure to streaming data mining and modeling, funded by the NSF and DARPA.

University of Virginia, Charlottesville, VA 09/2012 – 10/2018
Research Assistant, Department of Computer Science
Worked with Kamin Whitehouse on predictive preheating for residential buildings and automatic sensor metadata mapping for commercial buildings, and with Jack Stankovic on mobile sensing for health.

Samsung Research America, Mountain View, CA 09/2016 – 12/2016
Research Intern, Artificial Intelligence Research Center
Worked with Vijay Srinivasan and Hongxia Jin on building a mobile meeting assistant.

IBM T.J. Watson Research Center, Yorktown Heights, NY 05/2014 – 08/2014
Research Intern, Cognitive Internet-of-Things Research Department
Worked with Jorge J. Ortiz on sensor type classification for commercial buildings.

University of California, Berkeley, CA 05/2013 – 01/2014
Visiting Scholar, Computer Science Division
Worked with David Culler on verification of sensor placement.

Microsoft Research Asia, Beijing, China 10/2011 – 6/2012
Research Intern, Mobile and Sensing Systems Group

Worked with Guobin (Jacky) Shen on dead reckoning-based indoor localization and mobile sensing for personal wellness.

Tsinghua University, Beijing, China   07/2011 – 08/2011
Research Assistant, Institute of HCI and Media Integration, jointly with Nokia Research Center
Worked with Yuanchun Shi on an RFID-based indoor localization system.

Grant Proposal Writing

Drafted proposals with PhD and postdoc advisors, raising over $43M in fundings from the National Science Foundation and the Department of Energy.

NSF: Mid-scale RI-2: Grid-Connected Testing Infrastructure for Networked Control of Distributed Energy Resources   10/2020
- Senior Personnel, funded under Award No.1947050, $39,341,727

NSF Convergence Accelerator Track D: Towards Intelligent Sharing and Search for AI Models and Datasets 09/2020
- Senior Personnel, funded under Award No.2040727, $947,200

NSF: Collaborative Research: Predictive Risk Investigation SysteM (PRISM) for Multi-layer Dynamic Interconnection Analysis   10/2019
- Funded under Award No.1940291, $303,027 (UCSD Share), $2,400,000 in total

The Building Adapter: Automatic Mapping of Commercial Buildings for Scalable Building Analytics 12/2017
- Funded under DOE DE-EE0008227, $500,000

NSF III: Small: Cyber Physical Mappings - Empower Building Analytics at Scale   08/2017
- Funded under Award No.1718216, $499,853

Techniques for Automatic Mapping of Commercial Buildings for Scalable Building Analytics 08/2016
- Funded by Trane Inc., $100,000

Mentoring

University of California, San Diego
- *Dhiman Sengupta*, CSE PhD, open-sourced hearing aid platform
- *Ranak Roy Chowdhury*, CSE PhD, robust training for time series classification
- *Xiyuan Zhang*, CSE PhD, spatio-temporal imputation for time series
- *Jiayun Zhang*, CSE PhD, private attributes mining
- *Shuheng Li*, CSE PhD, monotonic training for time series forecasting and classification
- *Xiaohan Fu*, CSE MS → PhD, building operating system
- *Francesco Fraternali*, CSE PhD, reinforcement learning-based battery-free sensing platform
- *Vahideh Akhlaghi*, CSE PhD, approximation for deep learning acceleration
- *Jason Koh*, CSE PhD, resource management and system security for smart buildings
- *Jeng-Hau Lin*, CSE PhD, local binary pattern nerworks for character recognition
- *Jiacheng Li*, CSE MS → PhD, cross-building metadata mapping
- *Yang Jiao*, CSE MS, cross-building metadata mapping
- *Lisa Jiaman Wu*, CSE MS, metadata segmentation with language model
- *Naveen Kashyap*, CSE MS (with thesis), data-driven building environment simulator
- *Yutao Li*, CSE MS, reinforcement learning-based HVAC control

- *Yiming Yang*, CSE MS, integration framework for metadata inference methods
- *Chengzhu Duan*, CSE BS, search engine for IoT data
- *Minyoung Ahn*, CSE BS, building programming framework and applications

University of Virginia

- *Renqin Cai*, CS PhD, proactive learning for sensor metadata inference
- *Lu Lin*, CS PhD, active learning-based sequential labeling of metadata in buildings
- *Jing Ma*, CS PhD, selective sampling for sensor type classification
- *Zheng Luo*, CS MS, active learning-based sequential labeling of metadata in buildings
- *Atallah Hezbor*, CS BS, approximate computing for sensor co-location inference
- *Han Jin*, CS BS, genetic algorithm-based sensor co-location inference
- *Shuheng Li*, summer visiting intern, metric learning for sensor relationship inference

Teaching

University of California, San Diego

- CSE290 Computing on Network Edge and IoT Devices, a new grad-level seminar co-designed with Prof. Rajesh Gupta, Spring'19

University of Virginia

- *Teaching Assistant*, CS1110 Introduction to Programming, Fall'12
- *Teaching Assistant*, CS2102 Discrete Mathematics, Fall'12
- *Teaching Assistant*, CS1110 Introduction to Programming, Spring'13
- *Head Teaching Assistant*, CS3250 Software Testing, Spring'13

Professional Services

Poster & Demo Co-Chair   2020
International Conference on Systems for Energy-Efficient Built Environments (BuildSys)

Organization Co-Chair   2020
The 26th ACM SigKDD Conference on Knowledge Discovery and Data Mining (KDD)

Social Media Co-Chair   2020
International Conference on Information Processing in Sensor Networks (IPSN)

Organization Chair   2019
The 17th ACM-IEEE International Conference on Formal Methods and Models for System Design (MEMOCODE)

TPC Member   2020, 2021
International Conference on Systems for Energy-Efficient Built Environments (BuildSys)

TPC Member   2020, 2021
Conference on Empirical Methods in Natural Language Processing (EMNLP)

TPC Member   2021
The Joint Conference of the Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP)

TPC Member   2021
Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT)

TPC Member   2021
AAAI Conference on Artificial Intelligence (AAAI)

TPC Member   2020
Workshop on Data: Acquisition To Analysis (DATA), co-located with BuildSys'20

TPC Member   2019
IEEE Security and Privacy Workshop on Assured Autonomous Systems (WAAS), co-located with
IEEE S&P'20

TPC Member   2019
Workshop on Urban Building Energy Sensing, Controls, Big Data Analysis, and Visualization
(UrbSys), co-located with BuildSys'19

TPC Member   2019
Workshop on Continual and Multi-modal Learning for Internet of Things, co-located with Ubi-
Comp'19

TPC Member   2019
Workshop on Combining Physical and Data-Driven Knowledge in Ubiquitous Computing, co-
located with UbiComp'19

External Reviewer: IPSN'15, BuildSys'15, UbiComp'15, E-Energy'15, MobiSys'16, UbiComp'17

Publications

I have published in the premier venues in the areas of Systems (SenSys, BuildSys, IPSN, MobiSys,
UbiComp) and Data Science (ACL, EMNLP, WACV, AAAI, AISTATS, CIKM). My work has also
won three **Best Paper Runner-Ups** (two at BuildSys'15 and one at BulidSys'16), one **Best Demo
Award** at BuildSys'16, and one **Best Paper Award** at PervasiveHealth'20.

Journal

Judy P. Che-Castaldo, Rémi Cousin, Stefani Daryanto, Grace Deng, Mei-Ling Emily Feng, Rajesh
K. Gupta, Dezhi Hong, Ryan M. McGranaghan, Olukunle O. Owolabi, Tianyi Qu, Wei Ren, Toryn
L. J. Schafer, Ashutosh Sharma, Chaopeng Shen, Mila Getmansky Sherman, Deborah A Sunter, Bo
Tao, Lan Wang, David S. Matteson. *"Critical Risk Indicators (CRIs) for the electric power grid: A survey
and discussion of interconnected effects"*. Environment Systems and Decisions (impact factor=2.41),
Springer, 2021.

(α-β) Bharathan Balaji, Arka Bhattacharya, Gabe Fierro, Jingkun Gao, Joshua Gluck, Dezhi Hong,
Aslak Johansen, Jason Koh, Yuvraj Agarwal, Mario Bergés, David Culler, Rajesh Gupta, Mikkel
Baun Kjærgaard, Joern Ploennigs, Mani Srivastava, Kamin Whitehouse. *"Brick: Metadata Schema
for Portable Smart Building Applications"*. Applied Energy (impact factor=9.270), Elsevier, 2018.

Yongqiang Lyu, Dezhi Hong, Ying Wang, Yinghong Hou, Zhengwen Yang, Yu Chen, Yuanchun
Shi, Alvin Chin. *"A Scalable and Privacy-Aware Location-Sensing Model for Ephemeral Social Network
Service"*. The International Journal of Distributed Sensor Networks (IJDSN, impact factor=1.787),
Vol 9, Issue 3, 2013.

Conference
‡Students I mentored

Omid Setayeshfar, Karthika Subramani, Xingzi Yuan, Raunak Dey, Dezhi Hong, Kyu Hyung Lee,
In Kee Kim. *"ChatterHub: Privacy Invasion via Smart Home Hub"*. The 7th IEEE Conference on
Smart Computing (SmartComp'21). August, 2021, Virtual.

Lisa Wu‡, Dezhi Hong, Rajesh Gupta, Jingbo Shang. *"Sensei: Self-Supervised Sensor Name Segmen-
tation"*. The Joint Conference of the 59th Annual Meeting of the Association for Computational
Linguistics and the 11th International Joint Conference on Natural Language Processing (**ACL-**

IJCNLP'21-Findings). August, 2021, Virtual.

Fang He, Yang Deng, Yanhui Xu, Cheng Xu, Dezhi Hong, Dan Wang. *"Energon: Facilitating Building Analytics via Abstraction"*. The 12th ACM International Conference on Future Energy Systems (**e-Energy**). June, 2021, Virtual.

Yang Jiao[‡], Jiacheng Li[‡], Lisa Wu[‡], Dezhi Hong, Rajesh Gupta, Jingbo Shang. *"SeNsER: Learning Cross-Building Sensor Metadata Tagger"*. The 2020 Conference on Empirical Methods in Natural Language Processing (**EMNLP'20-Findings**). November, 2020, Virtual.

Francesco Fraternali[‡], Bharathan Balji, Dhiman Sengupta, Dezhi Hong, Rajesh Gupta. *"Ember: Energy Management of Batteryless Event Detection Sensors with Deep Reinforcement Learning"*. The 18th ACM Conference on Embedded Networked Sensor Systems (**SenSys'20**). November, 2020, Virtual.

Fang He, Cheng Xu, Yanhui Xu, Dezhi Hong, Dan Wang. *"EnergonQL: A Building Independent Acquisitional Query Language for Portable Building Analytics"* (short paper). The 7th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (**BuildSys'20**). November, 2020, Virtual.

Dhiman Sengupta[‡], Tamara Zubatiy, Sean K. Hamilton[‡], Arthur Boothroyd, Cagri Yalcin, Dezhi Hong, Rajesh K. Gupta, Harinath Garudadri. *"Open Speech Platform: Democratizing Hearing Aid Research"*. The 14th EAI International Conference on Pervasive Computing Technologies for Healthcare (**PervasiveHealth'20**). September, 2020, Atlanta, USA.
Best Paper Award

Jing Ma[‡], Dezhi Hong, Hongning Wang. *"Selective Sampling for Sensor Type Classification in Buildings"*. The International Conference on Information Processing in Sensor Networks (**IPSN'20**). April, 2020, Sydney, Australia.

Jeng-Hau Lin[‡], Justin Lazarow, Yunfan Yang, Dezhi Hong, Rajesh Gupta, Zhuowen Tu. *"Local Binary Pattern Networks"*. The Winter Conference on Applications of Computer Vision (**WACV '20**). March, 2020, Aspen, USA.

Shuheng Li[‡], Dezhi Hong, Hongning Wang. *"Relation Inference among Sensor Time Series in Smart Buildings with Metric Learning"* (spotlight). The 34th AAAI Conference on Artificial Intelligence (**AAAI'20**). February, 2020, New York, USA.

Jason Koh[‡], Dezhi Hong, Shreyas Nagare, Sudershan Boovaraghavan, Yuvraj Agarwal, Rajesh Gupta. *"Who can Access What, and When? Understanding Minimal Access Requirements of Building Applications"* (short paper). The 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (**BuildSys'19**). November, 2019, New York, USA.

Lu Lin[‡], Zheng Luo[‡], Dezhi Hong, Hongning Wang. *"Sequential Learning with Active Partial Labeling for Metadata in Buildings"* (short paper). The 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (**BuildSys'19**). November, 2019, New York, USA.

Dezhi Hong, Renqin Cai, Hongning Wang, Kamin Whitehouse. *"Learning from Correlated Events for Equipment Relation Inference in Buildings"*. The 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (**BuildSys'19**). November, 2019, New York, USA.

Zhou Fang[‡], Dezhi Hong, Rajesh Gupta. *"Serving Deep Neural Networks at the Cloud Edge for Vision Applications on Mobile Platforms"*. The 10th ACM Multimedia Systems Conference (**MMSys'19**).

June, 2019, Amherst, USA.

Jason Koh[†], Dezhi Hong[†], Yuvraj Agarwal, Rajesh Gupta, Hongning Wang, Kamin Whitehouse. *"Plaster: An Integration, Benchmark, and Development Framework for Heterogeneous Metadata Normalization Methods"*. The 5th ACM International Conference on Embedded Systems for Energy-Efficient Built Environments (**BuildSys'18**). November, 2018, Shenzhen, China.
[†]Equal Contribution

Avinash Kalyanaraman, Dezhi Hong, Elahe Soltanaghaei, Kamin Whitehouse. *"FormaTrack: Tracking People based on Body Shape"*. The Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT'17), Volume 1, Issue 3, Article 61. Presented at **Ubicomp'17**, September, 2017, Maui, USA.

Dezhi Hong, Quanquan Gu, Kamin Whitehouse. *"High-dimensional Time Series Clustering via Cross-Predictability"*. The 20th International Conference on Artificial Intelligence and Statistics (**AISTATS'17**). April 2017, Fort Lauderdale, USA.

Bharathan Balaji[†], Arka Bhattacharya[†], Gabe Fierro[†] Jingkun Gao[†], Joshua Gluck[†], Dezhi Hong[†], Aslak Johansen[†], Jason Koh[†], Yuvraj Agarwal, Mario Bergés, David Culler, Rajesh Gupta, Mikkel Baun Kjærgaard, Joern Ploennigs, Mani Srivastava, Kamin Whitehouse. *"Brick v1.0 - Towards a Unified Metadata Schema for Buildings"*. The 3rd ACM International Conference on Embedded Systems for Energy-Efficient Built Environments (**BuildSys'16**). November, 2016, Stanford, USA.
[†]Equal Contribution
Best Paper Runner-up, Audience Choice Award
Brick has been integrated into the ASHRAE Standard 223P for semantic tagging of building data.

Dezhi Hong, Hongning Wang, Jorge Ortiz, Kamin Whitehouse. *"The Building Adapter: Towards Quickly Applying Building Analytics at Scale"*. The 2nd ACM International Conference on Embedded Systems for Energy-Efficient Built Environments (**BuildSys'15**). November, 2015, Seoul, South Korea.
Best Paper Runner-up

Arka Bhattacharya, Dezhi Hong, David Culler, Jorge Ortiz, Kamin Whitehouse, Eugene Wu. *"Automated Metadata Construction to Support Portable Building Applications"*. The 2nd ACM International Conference on Embedded Systems for Energy-Efficient Built Environments (**BuildSys'15**). November, 2015, Seoul, South Korea.
Best Paper Runner-up

Dezhi Hong, Hongning Wang, Kamin Whitehouse. *"Clustering-based Active Learning on Sensor Type Classification in Buildings"*. The 24th ACM International Conference on Information and Knowledge Management (**CIKM'15**). October, 2015, Melbourne, Australia.

Shahriar Nirjon, Robert Dickerson, Philip Asare, Qiang Li, Dezhi Hong, John A. Stankovic, Pan Hu, Guobin Shen, Xiaofan Jiang. *"Auditeur: A Mobile-Cloud Service Platform for Acoustic Event Detection on Smartphones"*. The 11th International Conference on Mobile Systems, Applications and Services (**MobiSys'13**). June, 2013, Taipei, Taiwan.

Alvin Chin, Xiang Zuo, Bin Xu, Xiaoguang Fan, Dezhi Hong, Ying Wang, Xia Wang. *"Connecting People From Offline to Online in a Mobile Social Application"*. The IEEE International Conference on Cyber, Physical and Social Computing (**CPSCom'12**). November, 2012, Besancon, France.

Shahriar Nirjon, Robert Dickerson, Qiang Li, Philip Asare, John A. Stankovic, Dezhi Hong, Ben Zhang, Guobin Shen, Xiaofan Jiang, Feng Zhao. *"MusicalHeart: A Hearty Way of Listening to Music"*. The 10th ACM Conference on Embedded Networked Sensing Systems (**SenSys'12**). November, 2012, Toronto, Canada.

Media Coverage: *The Economist, New Scientist, CNET, Gizmodo, The Times of India.*

Workshop and Extended Abstract

Rajesh Gupta, Mila Sherman, Dezhi Hong, Judy P Che-Castaldo, Ryan Michael McGranaghan, Deborah A Sunter, Chaopeng Shen, Rémi Cousin, David Matteson, Lan Wang, Wei Ren. *"Critical Risk Indicators (CRIs) for the electric power grid: A survey and discussion of interconnected effects"*. AGU Fall Meeting. December, 2020, Virtual.

Dezhi Hong, Rajesh Gupta. *"Relation Inference among Sensor Time Series in Smart Buildings with Metric Learning"*. AGU Fall Meeting. December, 2020, Virtual.

Rajesh Gupta, Jason Koh, Dezhi Hong. *"New Models and Methods for Programming Cyber-Physical Systems (Keynote)"*. The International Conference on Languages Compilers, Tools and Theory of Embedded Systems (LCTES'19). June, 2019, Phoenix, USA.

Dezhi Hong, Jorge Ortiz, Kamin Whitehouse, David E. Culler. *"Towards Automatic Spatial Verification of Sensor Placement in Buildings"*. The 5th ACM Workshop on Embedded Systems for Energy-Efficient Buildings (**BuildSys'13**). November, 2013, Rome, Italy.

Dezhi Hong, Kamin Whitehouse. *"A Feasibility Study: Mining Daily Traces for Home Heating Control"*. The 3rd International Workshop on Mobile Sensing (MS'13), co-located with IPSN. April, 2013, Philadelphia, USA.

Alvin Chin, Bin Xu, Dezhi Hong, Ying Wang, Fangxi Yin, Xia Wang, Wei Wang, Xiaoguang Fan. *"Using Proximity and Homophily to Connect Conference Attendees in a Mobile Social Network"*. The IEEE ICDCS International Workshop on Sensing, Networking, and Computing with Smartphones (PhoneCom'12). June, 2012, Macau, China.

Poster and Demo

Xiaohan Fu, Jason Koh, Francesco Fraternali, Dezhi Hong, Rajesh Gupta. *"Poster Abstract: Zonal Air Handling in Commercial Buildings"*. The 7th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (**BuildSys'20**). November, 2020, Virtual.

Francesco Fraternali, Bharathan Balji, Michael Barrow, Dezhi Hong, Rajesh Gupta. *"Demo Abstract – Ember: Energy Management of Batteryless Event Detection Sensors with Deep Reinforcement Learning"*. The 18th ACM Conference on Embedded Networked Sensor Systems (**SenSys'20**). November, 2020, Virtual.

Jason Koh, Kuo Liang, Yiming Yang, Dezhi Hong, Rajesh K. Gupta, Yuvraj Agarwal. *"Demo Abstract: Interactive Building Metadata Normalization with Plaster"*. The 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (**BuildSys'19**). November, 2019, New York, USA.

(α-β) Bharathan Balaji, Arka Bhattacharya, Gabe Fierro, Jingkun Gao, Joshua Gluck, Dezhi Hong, Aslak Johansen, Jason Koh, Yuvraj Agarwal, Mario Bergés, David Culler, Rajesh Gupta, Mikkel Baun Kjærgaard, Joern Ploennigs, Mani Srivastava, Kamin Whitehouse. *"Demo Abstract: Portable Queries Using Brick Schema for Building Applications"*. The 3rd ACM International Conference on Embedded Systems for Energy-Efficient Built Environments (**BuildSys'16**). November, 2016, Stanford, USA.
Best Demo Award

Kaifei Chen, John Kolb, Jonathan Furst, Dezhi Hong, Randy H. Katz. *"Poster Abstract: Intuitive Appliance Identification using Image Matching in Smart Buildings"*. The 2nd ACM International Conference on Embedded Systems for Energy-Efficient Built Environments (**BuildSys'15**). November, 2015, Seoul, South Korea.

Arka Bhattacharya, David Culler, Dezhi Hong, Kamin Whitehouse, Jorge Ortiz. *"Demo Abstract: Writing Scalable Building Efficiency Applications using Normalized Metadata"*. The 1st ACM International Conference on Embedded Systems For Energy-Efficient Buildings (**BuildSys'14**). November, 2014, Memphis, USA.

Arka Bhattacharya, David Culler, Dezhi Hong, Kamin Whitehouse, Jorge Ortiz. *"Poster Abstract: Automated Metadata Transformation for A-Priori Deployed Sensor Networks"*. The 12th ACM Conference on Embedded Networked Sensing Systems (**SenSys'14**). November, 2014, Memphis, USA.

Dezhi Hong, Shahriar Nirjon, John A. Stankovic, David J. Stone, Guobin Shen. *"Poster Abstract: A Mobile-Cloud Service for Physiological Anomaly Detection on Smartphones"*. The 12th ACM Conference on Information Processing in Sensor Networks (**IPSN'13**). April, 2013, Philadelphia, USA.

Pan Hu, Guobin Shen, Xiaofan Jiang, Shao-fu Shih, Donghuan Lu, Feng Zhao, Dezhi Hong, Qiang Li, Shahriar Nirjon, Robert Dickerson, John A. Stankovic. *"Demo Abstract: Septimu^2 - Earphones for Continuous and Non-Intrusive Physiological and Environmental Monitoring"*. The 10th ACM Conference on Embedded Networked Sensing Systems (**SenSys'12**). November, 2012, Toronto, Canada.

Dezhi Hong, Ben Zhang, Qiang Li, Shahriar Nirjon, Robert Dickerson, Guobin Shen, Xiaofan Jiang, John A. Stankovic. *"Demo Abstract: SEPTIMU - Continuous In-situ Human Wellness Monitoring and Feedback using Sensors Embedded in Earphones"*. The 11th ACM Conference on Information Processing in Sensor Networks (**IPSN'12**). April, 2012, Beijing, China.
Media Coverage: *Business Insider, Huffington Post, WearableTechWorld, Spin, BoomBotix.*

Preprint

Lisa Wu, Dezhi Hong, Rajesh Gupta, Jingbo Shang. *"Sensei: Self-Supervised Sensor Name Segmentation"*. arXiv preprint arXiv:2101.00130.

Dezhi Hong, Jorge Ortiz, Arka Bhattacharya, Kamin Whitehouse. *"Sensor-Type Classifications in Buildings"*. arXiv preprint, arXiv:1509.00498, Sept 2015.

Kaifei Chen, John Kolb, Jonathan Furst, Dezhi Hong, Randy H. Katz. *"Poster Abstract: Intuitive Appliance Identification using Image Matching in Smart Buildings"*. Technical Report UCB/EECS-2015-200, EECS Department, University of California, Berkeley, Sep 2015.

Arka Bhattacharya, David Culler, Dezhi Hong, Kamin Whitehouse, Jorge Ortiz. *"Enabling Portable Building Applications through Automated Metadata Augmentation"*. Technical Report UCB/EECS-2014-159, EECS Department, University of California, Berkeley, Aug 2014.

Tutorial

Jason Koh, Dezhi Hong, Yuvraj Agarwal, Rajesh K. Gupta. *"Tutorial: Building Metadata Normalization with Plaster"*. The 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys'19). November, 2019, New York, USA.

Miscellaneous

- PhD Admission Committee, CSE, UCSD	2019, 2020
- Student Travel Grant, AISTATS'17	04/2017
- Student Travel Grant, SigIR'15	07/2015
- Student Travel Grant, SenSys'12, '13, '14	2012-2014
- Member of ACM	2019 - Present
- Member of AAAI	2019 - Present

References

Rajesh Gupta (Postdoc Advisor)
Professor and Qualcomm Endowed Chair
Computer Science & Engineering
University of California, San Diego, CA USA
gupta@eng.ucsd.edu

Kamin Whitehouse (PhD Advisor)
Professor
Computer Science
University of Virginia, VA USA
whitehouse@virginia.edu

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Mani Srivastava
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Electrical and Computer Engineering
University of California Los Angeles, CA USA
mbs@ee.ucla.edu

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Computer Science
Carnegie Mellon University, PA USA
yuvraj@cs.cmu.edu

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Professor
Electrical Engineering and Computer Sciences
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