Alex Yen

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Updated 9/22/22

Research Interests

Mobile Computing, Embedded Systems, Wireless Communication

Education

University of California San Diego, San Diego, CA   2020–Present
Ph.D. in Computer Science
Advisor: Pat Pannuto

University of Massachusetts, Amherst, Amherst, MA   2016–2020
B.S. in Computer Engineering
Honors Thesis Advisor: Jay Taneja
Summa Cum Laude

Awards and Honors

National Science Foundation Graduate Research Fellowship	2022
UMass Amherst ECE Award of Excellence (<3%)	2020
Best Paper Nominee, BuildSys'19	2019
UMass Amherst Commonwealth Honors College: Honors Research Grant	2018

Experience

University of California San Diego   2020–Present
Graduate Student Researcher
Advisor: Pat Pannuto

STIMA Lab   2020
Research Assistant
Advisor: Jay Taneja

Nimbus Lab   2019
REU Summer Research Scholar
Advisor: Carrick Detweiler

University of Massachusetts, Amherst   2018–2020
Undergraduate Research Assistant
Advisor: Jay Taneja

Conference Publications

1. **Alex Yen**, Zeal Shah, Ben Ochoa, Pat Pannuto, and Jay Taneja. "EffiSenseSee: Towards Classifying Light Bulb Types and Energy Efficiency with Camera-Based Sensing." In the 9th ACM International Conference on Systems for Energy-Efficient Built Environments, Cities, and Transportation (BuildSys'22), November 2022. Conditionally Accepted.

2. Dhananjay Jagtap*, **Alex Yen***, Huanlei Wu, Aaron Schulman, and Pat Pannuto. 2021. Federated Infrastructure: Usage, Patterns, and Insights from "The People's Network". In ACM Internet Measurement Conference (IMC '21), November 2021.

3. Zeal Shah, **Alex Yen**, Ajey Pandey, and Jay Taneja. "GridInSight: Monitoring Electricity Using Visible Lights." In the 6th ACM International Conference on Systems for Energy-Efficient Built Environments, Cities, and Transportation (BuildSys'19), November 2019. Best Paper Nominee.

Workshop Publications

1. **Alex Yen**, Bryse Flowers, Wenshan Luo, Nitish Nagesh, Peter Tueller, Ryan Kastner, and Pat Pannuto. 2021. A UCSD view on replication and reproducibility for CPS & IoT. In Proceedings of the Workshop on Benchmarking Cyber-Physical Systems and Internet of Things (CPS-IoTBench '21), May 2021.

Talks

Federated Infrastructure: Usage, Patterns, and Insights from "The People's Network".
Center for Networked Systems Research Review, UCSD   Apr. 2022

Federated Infrastructure: Usage, Patterns, and Insights from "The People's Network".
ACM IMC'21   Nov. 2021

A UCSD view on replication and reproducibility for CPS & IoT.
CPS-IoTBench'21   May. 2021
Best Presentation Runner-Up.

Towards Mapping the Electric Grid with Visible Lights.
Center for Networked Systems Research Review, UCSD   Oct. 2020

Posters and Demos

1. Zeal Shah, **Alex Yen**, Ajey Pandey, Jay Taneja. "GridInSight: Monitoring Electricity Using Visible Lights." In the 2nd Annual ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS'19), July 2019.

Service and Activities

ENLACE Program, Mentor	2022
UCSD GradWIC Mentorship Program, Mentor	2022
UCSE CSE PhD Visit Day, Embedded-Group Lead Organizer	2022
Diversity, Equity, and Inclusion PhD Application Review	2021
UMass Amherst Science Olympiad Mentoring, Head Organizer	2019

HackUMass VI, Director of Hardware   2018
HackUMass V, Director of Hardware   2017