CEN WANG

Room 254, 140 Governors Dr, Amherst, MA 01003 cenwang@umass.edu | (617) 650-8462 | https://cenwangumass.github.io/

RESEARCH INTERESTS

- Al for simulation: application of artificial intelligence and machine learning techniques to automated creation of simulation models and enhancement of simulation quality
- Systems for simulation: design and development of simulation runtime systems that transparently improve simulation performance
- **Simulation application**: improvement of real-world systems in areas such as healthcare, logistics, finance, etc.

EDUCATION

University of Massachusetts Amherst

Amherst, MA Expected May 2024

Ph.D. student in Computer Science

Advisor: Peter J. Haas

GPA: 4.0/4.0

University of Massachusetts Amherst

Amherst, MA May 2019

M.S. in Computer Science

GPA: 4.0/4.0

Shanghai Jiao Tong University

Shanghai, China

June 2015

B.S.E. in Aeronautics and Astronautics Engineering

Thesis: Vision-based Indoor Positioning Algorithm for Quadrotors

Advisor: Shigian Liu

GPA: 3.3/4.0

PUBLICATIONS

Refereed Conference Proceedings Papers

- 1. NIM: Modeling and generation of simulation inputs via generative neural networks. **W. Cen**, E. A. Herbert, P. J. Haas. Proc. 2020 Winter Simulation Conference, to appear.
- 2. NIM: Generative Neural Networks for Simulation Input Modeling (Extended Abstract and Poster). **W. Cen**, E. A. Herbert, P.J. Haas. 2019 Winter Simul. Conf., National Harbor, MD, December, 2019.
- 3. NIM: Generative Neural Networks for Modeling and Generation of Simulation Inputs. E. A. Herbert, **W. Cen**, P.J. Haas. 2019 Summer Simul. Conf., Berlin, July, 2019.

AWARDS AND RECOGNITION

WSC Best Contributed Theoretical Paper Finalist 2021 IBM PhD Fellowship Finalist

December 2020 October 2020

PROFESSIONAL EXPERIENCE

Fantwan Inc. (startup funded by IDG Ventures) Co-founder and CTO

Shanghai, China October 2014 – June 2016

- Researched and productionized machine learning algorithms for personalized food recommendation on Apache Spark
- Launched Food & Restaurant Search: architected Elasticsearch indexing pipeline, configured analyzers and optimized search relevance
- Designed and developed RESTful APIs for food recommendation, high volume usage statistics collection and payment processing
- Designed and developed PostgreSQL Apache Kafka change data capture system
- Introduced modern DevOps practices to simplify server configuration, testing, continuous integration and deployment

TEACHING EXPERIENCES

Teaching Assistant for COMPSCI 590M Introduction to Simulation Grader for COMPSCI 590S Systems for Data Science Grader for COMPSCI 630 Systems Spring 2020, 2021 Fall 2018 Spring 2018

TECHNICAL SKILLS

Programming Languages
Machine Learning
Web Development
Databases
Tools

Python, Rust, C, C++, Java, JavaScript, SQL PyTorch, TensorFlow, Apache Spark, scikit-learn Django, Flask, SQLAlchemy PostgreSQL, MySQL, MongoDB, Elasticsearch Git, Ansible, Docker