Xiaowei Chen

Tel: +1 (405) 762-9673 | Email: xchen8897@gmail.com | Website:

EDUCATION

Oklahoma State University (OSU)   Expected: Jul. 2023
Ph.D. in Electrical & Computer Engineering. GPA: 4.0/4.0   Stillwater, OK, USA
• Dissertation Topic: Indoor Localization and Wayfinding from Room Layouts

Monroe College   Aug. 2019
Master's in Computer Science. GPA: 3.9/4.0   NY, USA

Xi'an Jiaotong University (XJTU)   Jun. 2009
B.E. in Computer Science & Technology. GPA: 3.4/4.0   Xi'an, Shaanxi, China

EXPERIENCE

Probabilistic Perspective-n-Lines for indoor camera pose estimation, Research Assistant, OSU   Jun. 2022 – Present

• Propose a probabilistic Perspective-n-Lines layer for indoor camera pose estimation by using room layouts and image out corners.

Dementia Patient Assistance System, Research Assistant, OSU   Aug. 2019 – Present

• Lead a team to develop an assistance system including backend supporting system, Android App, and Smart Glass App.

• The system mainly includes indoor localization, object detection, indoor navigation, speech recognition, intelligent communication.

Indoor Camera Pose Estimation from Room Layouts and IOCs, Research Assistant, OSU   Aug. 2019 – May. 2022

• Proposed a new Perspective-n-Lines algorithm to realize indoor camera pose estimation using room layouts and IOCs.

• Collected data to evaluate the proposed method. Identified and solved all the problems.

• Summarized the whole process and outlined the future work.

Senior Software Testing Engineer, Zhengzhou Chuwo Travel Service Co., Ltd.   Jan. 2015 – Apr. 2017

• Tested the websites and systems, including requirements checking, test case writing, test environment preparation, unit testing, functional testing, performance testing.

• Systems and websites online, problem analysis and system maintenance.

Senior Software Testing Engineer, Shenzhen Zhongxing Technology Co., Ltd.   Oct. 2012 – Nov. 2014

• Verified the user requiems, test the website, App, system, and API, and the systems and websites online and maintenance.

• Wrote and maintained all the documents, including test cases, system installation and configuration, etc.

Website Testing Manager, Linekong Technology Co., Ltd.   Aug. 2009 – Sep. 2012

• Supervised group members to enact related testing projects and testing cases.

• Set up testing environment, applied different testing methods to conduct system testing.

SKILL

Programming: Python (PyTorch, TensorFlow), Java, SQL   **Language:** Mandarin (native), English (fluent)
Software: MATLAB, Visual Studio Code, Android Studio, Jupyter Notebook, Axure RP, LoadRunner
Advanced: Camera Pose Estimation, Image Processing, Deep Learning, Transfer Learning, Intelligent Algorithm, Data Fusion

SELECTED PUBLICATION

• **Chen, X**. and Fan, G., 2022. Egocentric Indoor Localization from Coplanar Two-Line Room Layouts. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (pp. 1549-1559).

• **Chen, X.** and Fan, G., 2021. Egocentric Indoor Localization from Room Layouts and Image Outer Corners. In Proceedings of the IEEE/CVF International Conference on Computer Vision (pp. 3456-3465).

SELECTED HONOR AND AWARD

• Dr Yarlagadda Grad Fellowship Scholarship 2021   • Leo J. Peters & Josie Mosely Peters Scholarship 2022

COMMUNITY ENGAGEMENT

Reviewer, IEEE International Conference on Multimedia and Expo 2022 | Student Member, IEEE | Member, OSU CLA