Chenguang Wang

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https://c-steve-wang.github.io/

EDUCATION

Ph.D. Civil Engineering, Stony Brook University — Jan 2023–Present

M.S. Computer Science, Stevens Institute of Technology — Sep 2021–Jan 2023

B.S. Computer Science, Xi'an Jiaotong University — Sep 2016–Jun 2020

EXPERIENCE

Doctoral Student, Stony Brook University, Department of Civil Engineering — Jan 2023 – Present

Supervised by Prof. Susu Xu on Disaster Response

- Investigate the application of advanced Large Language Models in disaster response, specifically focusing on the integration of crowd-sensing data to augment real-time situational awareness.
- Develop and implement sophisticated AI technologies to enhance disaster management strategies, focusing on improving response efficiency and risk assessment in various disaster scenarios.

Research Assistant, Analytics and Information Secuity Lab — March – Dec 2022

Supervised by Prof. Xiaojiang Du on IoT Security

- Construct an autonomous drone system for the surveillance of smart home devices to detect unauthorized state alterations signaling potential security breaches.
- Implement advanced detection algorithms on drones for real-time monitoring of home IoT devices, focusing on identifying irregular activities in their operational states.

Research Assistant, MoE Key Lab for Intelligent Networks & Network Security — Feb 2020 – Jun 2021

Supervised by Prof. Zhongmin Cai on Cyber-Physical System

- Implemented YOLO for accurate gaze tracking on screens, using smart glasses data to identify user viewing points in video simulations.
- Developed methods to precisely determine user screen interactions through smart glasses data, leading to insights for an academic paper.

AWARDS

ECE Research Scholarship Award, Analytics and Information Security Lab — 2022

Provost Doctoral Fellowship, Stevens Institute of Technology — 2022

COMPETENCES

Languages Chinese (*native*), English (*proficient*)

Techniques Python, Matlab, C/C++, Linux, git, HTML/CSS/Javacript, LaTeX, PyTorch, QGIS

PUBLICATIONS

[1] **Wang, C.**, Liu, Y., Zhang, X., Li, X., Paramygin, V., Subgranon, A., Sheng, P., Zhao, X., Xu, S. "Causality-informed Rapid Post-hurricane Building Damage Detection in Large Scale from InSAR Imagery." In *Proceedings of the 8th ACM SIGSPATIAL International Workshop on Security Response using GIS 2023*, pp. 7-12, 2023. https://doi.org/10.1145/3615884.3629422

[2] Alami, M., Gunay, S., Mosalam, K., Vargas, L., Hassan, W., Merino-Peña, Y., Burton, H., Alhawamdeh, B., Lahna, T., Xu, S., Marinkovic, M., Archbold, J., Iturburu, L., Martin, A., Bektas, N., Ceferino, L., Duran, B., Nobahar, M., Romão, X., **Wang, C.**, Zhou, G., Zaoui, A., Kijewski-Correa, T. "StEER: Oukaïmedene Morocco Preliminary Virtual Reconnaissance Report (PVRR)", in *StEER 2023 Oukaïmedene Morocco Earthquake*, DesignSafe-CI, 2023. https://doi.org/10.17603/ds2-gw0j-6757