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 Supervised by Prof. Susu Xu on Disaster Response	Jan 2023 – Present
	 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 Security Lab	March – Dec 2022
	 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 monitorin focusing on identifying irregular activities in their operational states.	ng of home IoT devices,
	Research Assistant , MoE Key Lab for Intelligent Networks & Network Securit Supervised by Prof. Zhongmin Cai on Cyber-Physical System	y Feb 2020 – Jun 2021
	• Implemented YOLO for gaze tracking on screens via smart glasses data, thereby enabling precise identification of user viewing points and interactions in video simulations for academic insights.	
Awards	ECE Research Scholarship Award, Analytics and Information Security Lab	2022
	Provost Doctoral Fellowship, Stevens Institute of Technology	2022
Competences	Languages Chinese (<i>native</i>), English (<i>proficient</i>) Techniques Python, Matlab, C/C++, Linux, git, HTML/CSS/Javacript, LATEX, PyTorch, QGIS	
PUBLICATIONS	 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 In-SAR Imagery." In <i>Proceedings of the 8th ACM SIGSPATIAL International Workshop on Security Response using GIS 2023</i>, pp. 7-12, 2023. https://doi.org/10.1145/3615884.3629422 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 <i>StEER 2023 Oukaïmedene Morocco Earthquake</i>, DesignSafe-CI, 2023. https://doi.org/10.17603/ds2-gw0j-6757 	
	[3] Wang, C. , Engler, D., Li, X., Hou, J., Wald, D.J., Jaiswal, K., Xu, S. "Near-real-time Earthquake- induced Fatality Estimation using Crowdsourced Data and Large-Language Models." In <i>arXiv preprint</i> <i>arXiv:2312.03755</i> , 2023. https://arxiv.org/abs/2312.03755	
	[4] Wang, C., Liu, Y., Zhang, X., Li, X., Paramygin, V., Sheng, P., Zhao, X., Xu, S. "Scalable and Rapid Building Damage Detection after Hurricane Ian using Causal Bayesian Networks and InSAR Imagery." In <i>International Journal of Disaster Risk Reduction</i> , 104371, 2024. https://doi.org/10.	

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