Mengyang Guo

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Education			
Rutgers University, NJ	Civil Engineering	M.S., 2016	GPA: 4.0
Rutgers University, NJ	Civil Engineering	Ph.D., 4th year	GPA:3.94
Relevant Courses			
BIM	Software Engineering	g and Web Application	Advanced Data Mining
Introduction to GIS	Computer Vision		Programming Finance
Technical Skills			
Software: Programming Language: Cloud Service: LiDAR System:	MicroStation, Revit, ArcGIS, Navisworks, AutoCAD Python, JavaScript, HTML, PHP, SQL, C++, MATLAB AWS, Azure Faro LiDAR, Velodyne Mobile LiDAR, Z+F PROFILER Scanner		
Work Experience FEMA: Post-Sandy Mobile	Mobile LiDAR Co	ollastion Processing	
Mapping Study	 Mobile LiDAR Collection, Processing Web-based Inundation Risk Information System (IRIS) System Development and Building Elevation Certificate Data Extraction Cloud-based (AWS) Big Disaster Data Platform Development and Data Processing 		
NJ One Call Online Exam	PHP-based Exam System Development		
System		Database Development Exam System	
Digital Raritan River		 Cloud-based (AWS) Raritan Data Visualization Platform Development and Data Processing 	
Near Miss Project: Bring Computer Vision to Urban	 Develop Compute Detection System 	Develop comparer vision custor vimero una reassirum	
Planning		Fusion of LiDAR and Web Camera Data for 3D Vehicle/Pedestrian Position Extraction and Near Miss Estimation	
NDT testing of Yerba Buena Tunnel, San Francisco		red Data Collection, Proce Model Generation and In	_
US DOT: Development of Ar Online Platform for Streaming Highway		Static LiDAR Data Collection, Sharing, and Processing Web-based Data Sharing Platform Development	
HUD: Cost-effective Detection of Multi-Family Housing-Related Health and Safety Hazards	 3D Building Ther Infrared-based Mu	3D Building Thermal Model Generation	

Publication

- 1. Zhou, Z., Gong, J., & Guo, M. (2015). Image-based 3D reconstruction for posthurricane residential building damage assessment. Journal of Computing in Civil Engineering, 30(2), 04015015.
- 2. Wang, Z., Hu, H., Guo, M., & Gong, J. (2019). Optimization of Temporary Debris Management Site Selection and Site Service Regions for Enhancing Postdisaster Debris Removal Operations. Computer-Aided Civil and Infrastructure Engineering, 34(3), 230-247.
- 3. Thomas, N., Calderön, L., Senick, J., Sorensen-Allacci, M., Plotnik, D., Guo, M., ... & Mainelis, G. (2019). Investigation of indoor air quality determinants in a field study using three different data streams. Building and Environment.
- 4. Guo, M. (2016). Spatially resolved infrared imaging for building performance evaluation.