Junjie Chen

List of Publications by Year
in descending order

27 papers	589 citations	516215 16 h-index	610482 24 g-index
28 all docs	28 docs citations	28 times ranked	294 citing authors

#	Article	IF	Citations
1	Dynamic BIM-augmented UAV safety inspection for water diversion project. Computers in Industry, 2019, 108, 163-177.	5.7	52
2	Computer vision for solid waste sorting: A critical review of academic research. Waste Management, 2022, 142, 29-43.	3.7	51
3	Integrating Building Information Model and Augmented Reality for Drone-Based Building Inspection. Journal of Computing in Civil Engineering, 2021, 35, .	2.5	48
4	Using computer vision to recognize composition of construction waste mixtures: A semantic segmentation approach. Resources, Conservation and Recycling, 2022, 178, 106022.	5.3	45
5	Collaborative operation and real-time control of roller fleet for asphalt pavement compaction. Automation in Construction, 2019, 98, 16-29.	4.8	34
6	Bottom-up image detection of water channel slope damages based on superpixel segmentation and support vector machine. Advanced Engineering Informatics, 2021, 47, 101205.	4.0	34
7	Intelligent compaction practice and development: a bibliometric analysis. Engineering, Construction and Architectural Management, 2019, 27, 1213-1232.	1.8	31
8	Detecting, locating, and characterizing voids in disaster rubble for search and rescue. Advanced Engineering Informatics, 2019, 42, 100974.	4.0	29
9	Computer vision to recognize construction waste compositions: A novel boundary-aware transformer (BAT) model. Journal of Environmental Management, 2022, 305, 114405.	3.8	29
10	â€œLooking beneath the surfaceâ€: A visual-physical feature hybrid approach for unattended gauging of construction waste composition. Journal of Environmental Management, 2021, 286, 112233.	3.8	28
11	Indoor camera pose estimation via styleâ€transfer 3D models. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 335-353.	6.3	26
12	Registering georeferenced photos to a building information model to extract structures of interest. Advanced Engineering Informatics, 2019, 42, 100937.	4.0	22
13	Estimating construction waste truck payload volume using monocular vision. Resources, Conservation and Recycling, 2022, 177, 106013.	5.3	22
14	An integrated visualization framework to support whole-process management of water pipeline safety. Automation in Construction, 2018, 89, 24-37.	4.8	19
15	Sustainable built environment for facilitating public health of older adults: Evidence from Hong Kong. Sustainable Development, 2022, 30, 1086-1098.	6.9	19
16	AiRobSim: Simulating a Multisensor Aerial Robot for Urban Search and Rescue Operation and Training. Sensors, 2020, 20, 5223.	2.1	17
17	Align to locate: Registering photogrammetric point clouds to BIM for robust indoor localization. Building and Environment, 2022, 209, 108675.	3.0	16
18	Reconstructing unseen spaces in collapsed structures for search and rescue via deep learning based radargram inversion. Automation in Construction, 2022, 140, 104380.	4.8	14

#	Article	IF	Citations
19	Real-Time Optimization of Precast Concrete Component Transportation and Storage. Advances in Civil Engineering, 2020, 2020, 1-18.	0.4	13
20	Extracting water channels from aerial videos based on image-to-BIM registration and spatio-temporal continuity. Automation in Construction, 2021, 132, 103970.	4.8	10
21	Energy consumption of 270 schools in Tianjin, China. Frontiers in Energy, 2015, 9, 217-230.	1.2	8
22	Developing a user perception model for smart living: A partial least squares structural equation modelling approach. Building and Environment, 2022, 222, 109399.	3.0	8
23	Roller-Integrated Compaction Assessment of Earth-Rock Dam Materials Considering Operation Modes. Geotechnical Testing Journal, 2021, 44, 1839-1862.	0.5	6
24	Markerless Augmented Reality for Facility Management: Automated Spatial Registration based on Style Transfer Generative Network. , 2021, , .		4
25	Monocular Visionâ€"Enabled 3D Truck Reconstruction: A Novel Optimization Approach Based on Parametric Modeling and Graphics Rendering. Journal of Computing in Civil Engineering, 2022, 36, .	2.5	3
26	A Cyber-Physical System for Multi-Roller Control in Mega Infrastructure Projects. , 2020, , .		1
27	Detecting, extracting and classifying foreign objects in inter-basin channels to ensure water supply safety. Journal of Hydroinformatics, 2022, 24, 113-127.	1.1	0