Fei Dai

List of Publications by Citations

61	1,000	14	30
papers	citations	h-index	g-index
73	1,309	4.5	4.8
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
61	Automated as-built 3D reconstruction of civil infrastructure using computer vision: Achievements, opportunities, and challenges. *Advanced Engineering Informatics*, **2015**, 29, 149-161	7.4	108
60	Risk Assessment of Work-Related Musculoskeletal Disorders in Construction: State-of-the-Art Review. *Journal of Construction Engineering and Management - ASCE*, **2015**, 141, 04015008	4.2	98
59	Comparison of Image-Based and Time-of-Flight-Based Technologies for Three-Dimensional Reconstruction of Infrastructure. *Journal of Construction Engineering and Management - ASCE*, **2013**, 139, 69-79	4.2	88
58	Recognizing Diverse Construction Activities in Site Images via Relevance Networks of Construction-Related Objects Detected by Convolutional Neural Networks. *Journal of Computing in Civil Engineering*, **2018**, 32, 04018012	5	72
57	Resource-constrained critical path analysis based on discrete event simulation and particle swarm optimization. *Automation in Construction*, **2008**, 17, 670-681	9.6	68
56	Monitoring workers' attention and vigilance in construction activities through a wireless and wearable electroencephalography system. *Automation in Construction*, **2017**, 82, 122-137	9.6	66
55	Assessing the Accuracy of Applying Photogrammetry to Take Geometric Measurements on Building Products. *Journal of Construction Engineering and Management - ASCE*, **2010**, 136, 242-250	4.2	66
54	Optimized selection of key frames for monocular videogrammetric surveying of civil infrastructure. *Advanced Engineering Informatics*, **2013**, 27, 270-282	7.4	45
53	Vision-based detection and visualization of dynamic workspaces. *Automation in Construction*, **2019**, 104, 1-13	9.6	35
52	Photogrammetric error sources and impacts on modeling and surveying in construction engineering applications. *Visualization in Engineering*, **2014**, 2,	3	30
51	Photogrammetry Assisted Measurement of Interstory Drift for Rapid Post-disaster Building Damage Reconnaissance. *Journal of Nondestructive Evaluation*, **2011**, 30, 201-212	2.1	30
50	Social Media Data Analytics for the U.S. Construction Industry: Preliminary Study on Twitter. *Journal of Management in Engineering - ASCE*, **2017**, 33, 04017038	5.3	25
49	Real-time decision support for planning concrete plant operations enabled by integrating vehicle tracking technology, simulation, and optimization algorithms. *Canadian Journal of Civil Engineering*, **2007**, 34, 912-922	1.3	22
48	Analytical Approach to Augmenting Site Photos with 3D Graphics of Underground Infrastructure in Construction Engineering Applications. *Journal of Computing in Civil Engineering*, **2011**, 25, 66-74	5	21
47	Assessing Work-Related Risk Factors on Low Back Disorders among Roofing Workers. *Journal of Construction Engineering and Management - ASCE*, **2017**, 143,	4.2	14
46	Exoskeletons for manual material handling – A review and implication for construction applications. *Automation in Construction*, **2021**, 122, 103493	9.6	14
45	Hierarchical Bayesian Model of Worker Response to Proximity Warnings of Construction Safety Hazards: Toward Constant Review of Safety Risk Control Measures. *Journal of Construction Engineering and Management - ASCE*, **2017**, 143, 04017006	4.2	13

44	Three-Dimensional Modeling of Site Elements by Analytically Processing Image Data Contained in Site Photos. *Journal of Construction Engineering and Management - ASCE*, **2013**, 139, 881-894	4.2	13
43	Unsupervised Feature Learning for Objects of Interest Detection in Cluttered Construction Roof Site Images. *Procedia Engineering*, **2016**, 145, 428-435		13
42	Can mixed reality enhance safety communication on construction sites? An industry perspective. *Safety Science*, **2021**, 133, 105009	5.8	13
41	Analytical Method for Overturning Limit Analysis of Single-Column Pier Bridges. *Journal of Performance of Constructed Facilities*, **2017**, 31, 04017007	2	11
40	A vision-based method for on-road truck height measurement in proactive prevention of collision with overpasses and tunnels. *Automation in Construction*, **2015**, 50, 29-39	9.6	11
39	Assessing work-related risk factors for musculoskeletal knee disorders in construction roofing tasks. *Applied Ergonomics*, **2019**, 81, 102901	4.2	11
38	The assessment of material-handling strategies in dealing with sudden loading: the effect of uneven ground surface on trunk biomechanical responses. *Ergonomics*, **2015**, 58, 259-67	2.9	10
37	Research on Mechanism of Overturning Failure for Single-Column Pier Bridge **2014**,		8
36	Application of weigh-in-motion technologies for pavement and bridge response monitoring: State-of-the-art review. *Automation in Construction*, **2021**, 130, 103844	9.6	8
35	Comparison of Image-Based and Time-of-Flight-Based Technologies for 3D Reconstruction of Infrastructure **2012**,		6
34	Effects of working posture and roof slope on activation of lower limb muscles during shingle installation. *Ergonomics*, **2020**, 63, 1182-1193	2.9	6
33	Social Media Mining for Understanding Traffic Safety Culture in Washington State Using Twitter Data. *Journal of Computing in Civil Engineering*, **2021**, 35, 04020059	5	6
32	A forensic investigation of the Taihe arch bridge collapse. *Engineering Structures*, **2018**, 176, 881-891	4.7	6
31	Comparison of Camera Motion Estimation Methods for 3D Reconstruction of Infrastructure **2011**,		5
30	Photo-based 3D modeling of construction resources for visualization of operations simulation: Case of modeling a precast fa□de **2008**,		5
29	Achievements and Challenges in Recognizing and Reconstructing Civil Infrastructure. *Lecture Notes in Computer Science*, **2012**, 151-176	0.9	5
28	Classifying construction site photos for roof detection. *Construction Innovation*, **2016**, 16, 368-389	4.1	4
27	The changes of lumbar muscle flexion-relaxation phenomenon due to antero-posteriorly slanted ground surfaces. *Ergonomics*, **2016**, 59, 1251-8	2.9	4

26	Theoretic Framework and Finite Element Implementation on Progressive Collapse Simulation of Masonry Arch Bridge. *Mathematical Problems in Engineering*, **2015**, 2015, 1-12	1.1	4
25	A forensic investigation of the Xiaoshan ramp bridge collapse. *Engineering Structures*, **2020**, 224, 111203	4.7	4
24	Smart Sensing Technologies and Their Applications in Civil Infrastructures 2016. *Journal of Sensors*, **2016**, 2016, 1-2	2	4
23	Line Segment Grouping and Linking: A Key Step Toward Automated Photogrammetry for Non-Contact Site Surveying. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2015**, 79, 371-384	2.9	3
22	Smart Sensing Technologies and Their Applications in Civil Infrastructures. *Journal of Sensors*, **2015**, 2015, 1-1	2	3
21	Fusing imperfect experimental data for risk assessment of musculoskeletal disorders in construction using canonical polyadic decomposition. *Automation in Construction*, **2020**, 119,	9.6	2
20	Development of a Mapping Table for the Value Determination of Transportation Research Results. *Journal of Management in Engineering - ASCE*, **2018**, 34, 04017043	5.3	2
19	Project Related Entities Tracking on Construction Sites by Particle Filtering **2016**,		2
18	A forensic analysis of the Florida International University pedestrian bridge collapse using incident video footages. *Engineering Structures*, **2019**, 200, 109732	4.7	2
17	Evaluation of feature- and pixel-based methods for deflection measurements in temporary structure monitoring. *Journal of Civil Structural Health Monitoring*, **2015**, 5, 615-628	2.9	2
16	An evolution model of risk preference influenced by extremists in large group emergency consensus process. *Journal of Intelligent and Fuzzy Systems*, **2020**, 39, 7733-7746	1.6	2
15	Are knee savers and knee pads a viable intervention to reduce lower extremity musculoskeletal disorder risk in residential roofers?. *International Journal of Industrial Ergonomics*, **2019**, 74, 102868-102868	2.9	2
14	Three-Dimensional Visual and Collaborative Environment for Jobsite Risk Communication **2018**,		1
13	Evaluation of Stereo Matching Algorithms for Temporary Structure Monitoring **2014**,		1
12	Analytical approach to augmenting site photos with 3D as-built bored pile models **2009**,		1
11	Generating the sparse point cloud of a civil infrastructure scene using a single video camera under practical constraints **2011**,		1
10	State of Practice of Construction Site Safety in the USA. *Frontiers of Engineering Management*, **2016**, 3, 275	2.7	1
9	Identifying Potentially Risky Phases Leading to Knee Musculoskeletal Disorders during Shingle Installation Operations. *Journal of Construction Engineering and Management - ASCE*, **2020**, 146, 04019118	4.2	1

8	Output-only modal analysis for non-synchronous data using stochastic sub-space identification. *Engineering Structures*, **2021**, 230, 111702	4.7	1
7	Application of Data Fusion via Canonical Polyadic Decomposition in Risk Assessment of Musculoskeletal Disorders in Construction: Procedure and Stability Evaluation. *Journal of Construction Engineering and Management - ASCE*, **2021**, 147, 04021083	4.2	1
6	Kneeling trunk kinematics during simulated sloped roof shingle installation. *International Journal of Industrial Ergonomics*, **2020**, 77, 102945-102945	2.9	0
5	Effects of Uneven Ground Surface on Human Balance. *Proceedings of the Human Factors and Ergonomics Society*, **2015**, 59, 1243-1247	0.4	0
4	Automatic roller path tracking and mapping for pavement compaction using infrared thermography. *Computer-Aided Civil and Infrastructure Engineering*, **2021**, 36, 1416	8.4	0
3	Reality Capture in Construction Engineering Applications Using Close-Range Photogrammetry. *Applied Mechanics and Materials*, **2013**, 353-356, 2795-2798	0.3	
2	An Analytic Solution to the Settlement under the Trapezoidal Distribution of the Strip Load of the Soft Soil Foundation. *Applied Mechanics and Materials*, **2013**, 361-363, 1543-1546	0.3	
1	An alternative method for analyzing the slip potential of workers on sloped surfaces. *Safety Science* , **2021**, 133, 105026-105026	5.8	