Yantao Yu

List of Publications by Year in Descending Order

23 papers	942 citations	13 h-index	23 g-index
23 ext. papers	1,322 ext. citations	6.8 avg, IF	4.86 L-index

#	Paper	IF	Citations
23	Quantifying the Effect of Mental Stress on Physical Stress for Construction Tasks. *Journal of Construction Engineering and Management - ASCE*, **2022**, 148,	4.2	1
22	Automated Selection and Localization of Mobile Cranes in Construction Planning. *Buildings*, **2022**, 12, 580	3.2	1
21	Heart rate variability based physical exertion monitoring for manual material handling tasks. *International Journal of Industrial Ergonomics*, **2022**, 89, 103301	2.9	0
20	Posture-related data collection methods for construction workers: A review. *Automation in Construction*, **2021**, 124, 103538	9.6	13
19	. *IEEE Internet of Things Journal*, **2021**, 8, 1740-1748	10.7	2
18	Construction Activity Recognition and Ergonomic Risk Assessment Using a Wearable Insole Pressure System. *Journal of Construction Engineering and Management - ASCE*, **2020**, 146, 04020077	4.2	13
17	Combining deep features and activity context to improve recognition of activities of workers in groups. *Computer-Aided Civil and Infrastructure Engineering*, **2020**, 35, 965-978	8.4	12
16	Automated PPE-Tool pair check system for construction safety using smart IoT. *Journal of Building Engineering*, **2020**, 32, 101721	5.2	13
15	An automatic and non-invasive physical fatigue assessment method for construction workers. *Automation in Construction*, **2019**, 103, 1-12	9.6	53
14	Joint-Level Vision-Based Ergonomic Assessment Tool for Construction Workers. *Journal of Construction Engineering and Management - ASCE*, **2019**, 145, 04019025	4.2	33
13	Automatic Biomechanical Workload Estimation for Construction Workers by Computer Vision and Smart Insoles. *Journal of Computing in Civil Engineering*, **2019**, 33, 04019010	5	22
12	Capturing and Understanding Workers Activities in Far-Field Surveillance Videos with Deep Action Recognition and Bayesian Nonparametric Learning. *Computer-Aided Civil and Infrastructure Engineering*, **2019**, 34, 333-351	8.4	47
11	Image-and-Skeleton-Based Parameterized Approach to Real-Time Identification of Construction Workers Unsafe Behaviors. *Journal of Construction Engineering and Management - ASCE*, **2018**, 144, 04018042	4.2	32
10	A deep learning-based method for detecting non-certified work on construction sites. *Advanced Engineering Informatics*, **2018**, 35, 56-68	7.4	73
9	Towards efficient and objective work sampling: Recognizing workers' activities in site surveillance videos with two-stream convolutional networks. *Automation in Construction*, **2018**, 94, 360-370	9.6	53
8	Estimating Construction Workers' Physical Workload by Fusing Computer Vision and Smart Insole Technologies **2018**,		5
7	Wearable insole pressure system for automated detection and classification of awkward working postures in construction workers. *Automation in Construction*, **2018**, 96, 433-441	9.6	42

LIST OF PUBLICATIONS

6	Quantifying the physical intensity of construction workers, a mechanical energy approach. *Advanced Engineering Informatics*, **2018**, 38, 404-419	7.4	20
5	Automatic Pixel-Level Crack Detection and Measurement Using Fully Convolutional Network. *Computer-Aided Civil and Infrastructure Engineering*, **2018**, 33, 1090-1109	8.4	229
4	The availability of wearable-device-based physical data for the measurement of construction workers' psychological status on site: From the perspective of safety management. *Automation in Construction*, **2017**, 82, 207-217	9.6	42
3	An experimental study of real-time identification of construction workers' unsafe behaviors. *Automation in Construction*, **2017**, 82, 193-206	9.6	68
2	Visualization technology-based construction safety management: A review. *Automation in Construction*, **2017**, 73, 135-144	9.6	162
1	Motion-based analysis for construction workers using biomechanical methods. *Frontiers of Engineering Management*, **2017**, 4, 84	2.7	6