Waleed Umer

List of Publications by Year
in descending order

23 papers	**808** citations	566801 **15** h-index	676716 **22** g-index
23 all docs	**23** docs citations	**23** times ranked	**452** citing authors

#	Article	IF	Citations
1	Identification and classification of construction equipment operators' mental fatigue using wearable eye-tracking technology. Automation in Construction, 2020, 109, 103000.	4.8	91
2	The prevalence of musculoskeletal symptoms in the construction industry: a systematic review and meta-analysis. International Archives of Occupational and Environmental Health, 2018, 91, 125-144.	1.1	80
3	Evaluating the impact of mental fatigue on construction equipment operators' ability to detect hazards using wearable eye-tracking technology. Automation in Construction, 2019, 105, 102835.	4.8	79
4	Identification of Biomechanical Risk Factors for the Development of Lower-Back Disorders during Manual Rebar Tying. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	65
5	Evaluation of Physiological Metrics as Real-Time Measurement of Physical Fatigue in Construction Workers: State-of-the-Art Review. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	51
6	Development of a tool to monitor static balance of construction workers for proactive fall safety management. Automation in Construction, 2018, 94, 438-448.	4.8	48
7	Physical exertion modeling for construction tasks using combined cardiorespiratory and thermoregulatory measures. Automation in Construction, 2020, 112, 103079.	4.8	46
8	Construction Activity Recognition and Ergonomic Risk Assessment Using a Wearable Insole Pressure System. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	41
9	Low-Cost Ergonomic Intervention for Mitigating Physical and Subjective Discomfort during Manual Rebar Tying. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	39
10	Automatic Biomechanical Workload Estimation for Construction Workers by Computer Vision and Smart Insoles. Journal of Computing in Civil Engineering, 2019, 33, .	2.5	37
11	Deep learning-based networks for automated recognition and classification of awkward working postures in construction using wearable insole sensor data. Automation in Construction, 2022, 136, 104181.	4.8	34
12	Exploring the Injury Severity Risk Factors in Fatal Crashes with Neural Network. International Journal of Environmental Research and Public Health, 2020, 17, 7466.	1.2	32
13	Posture-related data collection methods for construction workers: A review. Automation in Construction, 2021, 124, 103538.	4.8	32
14	Performance Evaluation of Plastic Concrete Modified with E-Waste Plastic as a Partial Replacement of Coarse Aggregate. Materials, 2022, 15, 175.	1.3	26
15	Cardiorespiratory and Thermoregulatory Parameters Are Good Surrogates for Measuring Physical Fatigue during a Simulated Construction Task. International Journal of Environmental Research and Public Health, 2020, 17, 5418.	1.2	24
16	Proactive Safety Measures: Quantifying the Upright Standing Stability after Sustained Rebar Tying Postures. Journal of Construction Engineering and Management - ASCE, 2018, 144, 04018010.	2.0	16
17	Estimating Construction Workers' Physical Workload by Fusing Computer Vision and Smart Insole Technologies. , 2018, , .		14
18	Simultaneous monitoring of physical and mental stress for construction tasks using physiological measures. Journal of Building Engineering, 2022, 46, 103777.	1.6	13

#	Article	IF	Citations
19	Quantifying the Effect of Mental Stress on Physical Stress for Construction Tasks. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	10
20	Use of Ultra Wide Band Real-Time Location System on Construction Jobsites: Feasibility Study and Deployment Alternatives. International Journal of Environmental Research and Public Health, 2020, 17, 2219.	1.2	9
21	Effects of load carrying techniques on gait parameters, dynamic balance, and physiological parameters during a manual material handling task. Engineering, Construction and Architectural Management, 2022, 29, 3415-3438.	1.8	7
22	Test-retest reliability, validity, and responsiveness of a textile-based wearable sensor for real-time assessment of physical fatigue in construction bar-benders. Journal of Building Engineering, 2021, 44, 103348.	1.6	7
23	Heart rate variability based physical exertion monitoring for manual material handling tasks. International Journal of Industrial Ergonomics, 2022, 89, 103301.	1.5	7