

# Houtan Jebelli

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,662  
citations

430442

18  
h-index

610482

24  
g-index

47  
all docs

47  
docs citations

47  
times ranked

869  
citing authors

#	ARTICLE	IF	CITATIONS
1	Workersâ€™ Trust in Collaborative Construction Robots: EEG-Based Trust Recognition in an Immersive Environment. , 2022, , 201-215.		7
2	Worker-Aware Task Planning for Construction Robots: A Physiologically Based Communication Channel Interface. , 2022, , 181-200.		3
3	Enhanced Situational Awareness in Worker-Robot Interaction in Construction: Assessing the Role of Visual Cues. , 2022, , .		1
4	Barrier Analysis of Effective Implementation of Robotics in the Construction Industry. , 2022, , .		6
5	Worker-Aware Robotic Motion Planner in Construction for Improved Psychological Well-Being during Worker-Robot Interaction. , 2022, , .		2
6	Smart Robotic System to Fight the Spread of COVID-19 at Construction Sites. , 2022, , .		1
7	Feasibility of Embodied Virtual Agents for Augmenting Studentsâ€™ Knowledge of Robotic Safety in Construction. , 2022, , .		1
8	Intention Estimation in Physical Human-Robot Interaction in Construction: Empowering Robots to Gauge Workersâ€™ Posture. , 2022, , .		6
9	Toward Human-in-the-Loop Construction Robotics: Understanding Workersâ€™ Response through Trust Measurement during Human-Robot Collaboration. , 2022, , .		7
10	An Optimal Resource Allocation Strategy for Retrofitting Unreinforced Masonry Buildings in the Pre-Disaster Stage. , 2022, , .		0
11	Worker-in-the-Loop Cyber-Physical System for Safe Human-Robot Collaboration in Construction. , 2022, , .		3
12	Human-Robot Co-Adaptation in Construction: Bio-Signal Based Control of Bricklaying Robots. , 2022, , .		4
13	Feasibility of Virtual Avatar Simulator for Human-Robot Collaboration Training in Construction. , 2022, , .		0
14	Improving the Prediction Accuracy of Data-Driven Fault Diagnosis for HVAC Systems by Applying the Synthetic Minority Oversampling Technique. , 2022, , .		0
15	Developing an Affordable Robotic System for Automated Fall Hazard Detection and Localization in Indoor Construction Environments. , 2022, , .		5
16	Investigating the Potentials of Operational Data Collected from Facilitiesâ€™ Embedded Sensors for Early Detection of HVAC Systemsâ€™ Failures. , 2022, , .		0
17	Comparison of ironworker's fall risk assessment systems using an immersive biofeedback simulator. Automation in Construction, 2021, 122, 103471.	4.8	18
18	Brain-computer interface for hands-free teleoperation of construction robots. Automation in Construction, 2021, 123, 103523.	4.8	69

#	ARTICLE	IF	CITATIONS
19	Brainwave-driven human-robot collaboration in construction. <i>Automation in Construction</i> , 2021, 124, 103556.	4.8	74
20	Paving the Way for Future EEG Studies in Construction: Dependent Component Analysis for Automatic Ocular Artifact Removal from Brainwave Signals. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021, 147, .	2.0	22
21	A hybrid robust-stochastic optimization framework for optimal energy management of electric vehicles parking lots. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101467.	1.7	9
22	Assessing occupational risk of heat stress at construction: A worker-centric wearable sensor-based approach. <i>Safety Science</i> , 2021, 142, 105395.	2.6	39
23	Assessment of construction workersâ€™ perceived risk using physiological data from wearable sensors: A machine learning approach. <i>Journal of Building Engineering</i> , 2021, 42, 102824.	1.6	36
24	Non-invasive physical demand assessment using wearable respiration sensor and random forest classifier. <i>Journal of Building Engineering</i> , 2021, 44, 103279.	1.6	12
25	Wearable Biosensor and Collective Sensingâ€‘Based Approach for Detecting Older Adultsâ€™ Environmental Barriers. <i>Journal of Computing in Civil Engineering</i> , 2020, 34, .	2.5	23
26	Physiology-based dynamic muscle fatigue model for upper limbs during construction tasks. <i>International Journal of Industrial Ergonomics</i> , 2020, 78, 102984.	1.5	10
27	Robust scheduling of multi-chiller system with chilled-water storage under hourly electricity pricing. <i>Energy and Buildings</i> , 2020, 218, 110058.	3.1	18
28	Neurophysiological testing for assessing construction workers' task performance at virtual height. <i>Automation in Construction</i> , 2020, 113, 103143.	4.8	11
29	Evaluation of hydrogen storage technology in risk-constrained stochastic scheduling of multi-carrier energy systems considering power, gas and heating network constraints. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 30129-30141.	3.8	55
30	Intelligent approach for residential load scheduling. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 4738-4745.	1.4	22
31	Ocular Artifacts Reduction in EEG Signals Acquired at Construction Sites by Applying a Dependent Component Analysis (DCA). , 2020, , .		12
32	Multi-Level Assessment of Occupational Stress in the Field Using a Wearable EEG Headset. , 2020, , .		6
33	Recognition of Construction Workersâ€™ Physical Fatigue Based on Gait Patterns Driven from Three-Axis Accelerometer Embedded in a Smartphone. , 2020, , .		4
34	Wearable Sensing Technology Applications in Construction Safety and Health. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	2.0	142
35	Application of Wearable Biosensors to Construction Sites. I: Assessing Workersâ€™ Stress. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	2.0	69
36	Feasibility analysis of electrodermal activity (EDA) acquired from wearable sensors to assess construction workersâ€™ perceived risk. <i>Safety Science</i> , 2019, 115, 110-120.	2.6	84

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37	A Continuously Updated, Computationally Efficient Stress Recognition Framework Using Electroencephalogram (EEG) by Applying Online Multitask Learning Algorithms (OMTL). IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1928-1939.	3.9	52
38	Mobile EEG-Based Workers' Stress Recognition by Applying Deep Neural Network. , 2019, , 173-180.		43
39	Measuring Workers' Emotional State during Construction Tasks Using Wearable EEG. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	129
40	EEG Signal-Processing Framework to Obtain High-Quality Brain Waves from an Off-the-Shelf Wearable EEG Device. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	107
41	Assessing the effects of slippery steel beam coatings to ironworkers' gait stability. Applied Ergonomics, 2018, 68, 72-79.	1.7	28
42	Feasibility Study of a Wristband-Type Wearable Sensor to Understand Construction Workers' Physical and Mental Status. , 2018, , .		44
43	A Supervised Learning-Based Construction Workers' Stress Recognition Using a Wearable Electroencephalography (EEG) Device. , 2018, , .		33
44	EEG-based workers' stress recognition at construction sites. Automation in Construction, 2018, 93, 315-324.	4.8	207
45	Feasibility of Field Measurement of Construction Workers' Valence Using a Wearable EEG Device. , 2017, , .		28
46	Feasibility analysis of heart rate monitoring of construction workers using a photoplethysmography (PPG) sensor embedded in a wristband-type activity tracker. Automation in Construction, 2016, 71, 372-381.	4.8	95
47	Fall risk analysis of construction workers using inertial measurement units: Validating the usefulness of the postural stability metrics in construction. Safety Science, 2016, 84, 161-170.	2.6	115