Jing Du

List of Publications by Year in descending order

36 papers	712 citations	1040056 9 h-index	888059 17 g-index
36 all docs	36 docs citations	36 times ranked	512 citing authors

#	Article	IF	Citations
1	Zero latency: Real-time synchronization of BIM data in virtual reality for collaborative decision-making. Automation in Construction, 2018, 85, 51-64.	9.8	197
2	Impact assessment of reinforced learning methods on construction workers' fall risk behavior using virtual reality. Automation in Construction, 2019, 104, 197-214.	9.8	129
3	A Multiuser Shared Virtual Environment for Facility Management. Procedia Engineering, 2016, 145, 120-127.	1.2	70
4	Cognition Digital Twins for Personalized Information Systems of Smart Cities: Proof of Concept. Journal of Management in Engineering - ASCE, 2020, 36, .	4.8	60
5	A neurophysiological approach to assess training outcome under stress: A virtual reality experiment of industrial shutdown maintenance using Functional Near-Infrared Spectroscopy (fNIRS). Advanced Engineering Informatics, 2020, 46, 101153.	8.0	46
6	The impact of engineering information formats on learning and execution of construction operations: A virtual reality pipe maintenance experiment. Automation in Construction, 2020, 119, 103367.	9.8	44
7	Neurobehavioral assessment of force feedback simulation in industrial robotic teleoperation. Automation in Construction, 2021, 126, 103674.	9.8	30
8	Spatial knowledge and firefighters' wayfinding performance: A virtual reality search and rescue experiment. Safety Science, 2021, 139, 105231.	4.9	28
9	Data-Driven Approach to Scenario Determination for VR-Based Construction Safety Training. , 2018, , .		18
10	A Cloud-based shareable library of cooperative behaviors for Agent Based Modeling in construction. Automation in Construction, 2016, 62, 89-100.	9.8	11
11	Network percolation reveals adaptive bridges of the mobility network response to COVID-19. PLoS ONE, 2021, 16, e0258868.	2.5	11
12	Human hand motion prediction based on feature grouping and deep learning: Pipe skid maintenance example. Automation in Construction, 2022, 138, 104232.	9.8	9
13	Construction Robot Teleoperation Safeguard Based on Real-Time Human Hand Motion Prediction. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	3.8	9
14	Brain Activity-Based Metrics for Assessing Learning States in VR under Stress among Firefighters: An Explorative Machine Learning Approach in Neuroergonomics. Brain Sciences, 2021, 11, 885.	2.3	7
15	Seeing through Disaster Rubble in 3D with Ground-Penetrating Radar and Interactive Augmented Reality for Urban Search and Rescue. Journal of Computing in Civil Engineering, 2022, 36, .	4.7	7
16	Benchmarking Human versus Robot Performance in Emergency Structural Inspection. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	3.8	6
17	Wayfinding Information Cognitive Load Classification Based on Functional Near-Infrared Spectroscopy. Journal of Computing in Civil Engineering, 2021, 35, .	4.7	5
18	Human Robot Comparison in Rapid Structural Inspection. , 2022, , .		5

#	Article	IF	Citations
19	Exoskeleton Training through Haptic Sensation Transfer in Immersive Virtual Environment. , 2022, , .		3
20	VR-Based Haptic Simulator for Subsea Robot Teleoperations. , 2022, , .		3
21	Participatory and Evolutionary Fire Simulation via a Sensitive Control of Key Scenery Parameters. , 2019, , .		2
22	First Respondersâ€™ Spatial Working Memory of Large-Scale Buildings: Implications of Information Format. , 2019, , .		2
23	The Impact of Engineering Information Complexity on Working Memory Development of Construction Workers: An Eye-Tracking Investigation. , 2020, , .		2
24	Identifying the shifting sources to predict the dynamics of COVID-19 in the U.S.. Chaos, 2022, 32, 033104.	2.5	2
25	Human Intent Prediction in Human-Robot Collaborationâ€"A Pipe Maintenance Example. , 2022, , .		2
26	Simulation of Spatial Memory for Human Navigation Based on Visual Attention in Floorplan Review. , 2019, , .		1
27	The Impact of Engineering Information Formats on Workersâ€™ Cognitive Load in Working Memory Development. , 2020, , .		1
28	3D-DesktopEye: A Desktop-Based Eye-Tracking System for Facility Management. , 2022, , .		1
29	Neural Basis Analysis of Firefightersâ€™ Wayfinding Performance via Functional Near-Infrared Spectroscopy. Journal of Computing in Civil Engineering, 2022, 36, .	4.7	1
30	A Framework for Virtual Reality-Based Motor Skills Training for the Use of Exoskeletons. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 277-278.	0.3	0
31	A Review of Research-to-Practice Drivers and Barriers in Visualization, Information Modeling, and Simulation. , 2022, , .		0
32	Human-Like Bilateral Robotic Arm Controls for Remote Pipe Maintenance. , 2022, , .		0
33	Snake Robot In-Pipe Teleoperation System with Upper-Body Haptic Simulator. , 2022, , .		0
34	The Role of Spatial Information in Search and Rescue: A Virtual Reality Experiment. , 2022, , .		0
35	Human-in-the-Loop Robot-Augmented Intelligent System for Emergency Reconnaissance. , 2022, , .		0
36	Comparison of 3D SLAM for Quadrupedal Robot-Based Scanning. , 2022, , .		0