Jongwon Seo

List of Publications by Year
in descending order

36 papers	771 citations	516710 16 h-index	526287 27 g-index
36 all docs	36 docs citations	36 times ranked	511 citing authors

#	Article	IF	Citations
1	Interaction analysis for vision-based activity identification of earthmoving excavators and dump trucks. Automation in Construction, 2018, 87, 297-308.	9.8	94
2	Assessment of operator's situation awareness for smart operation of mobile cranes. Automation in Construction, 2018, 85, 65-75.	9.8	75
3	Task planner design for an automated excavation system. Automation in Construction, 2011, 20, 954-966.	9.8	64
4	BIM-Based Tunnel Information Modeling Framework for Visualization, Management, and Simulation of Drill-and-Blast Tunneling Projects. Journal of Computing in Civil Engineering, 2021, 35, .	4.7	52
5	Optical marker–based end effector pose estimation for articulated excavators. Automation in Construction, 2016, 65, 51-64.	9.8	48
6	Intelligent navigation strategies for an automated earthwork system. Automation in Construction, 2012, 21, 132-147.	9.8	35
7	Task planning strategy and path similarity analysis for an autonomous excavator. Automation in Construction, 2020, 112, 103108.	9.8	34
8	BIM-GIS-Based Integrated Framework for Underground Utility Management System for Earthwork Operations. Applied Sciences (Switzerland), 2021, 11, 5721.	2.5	31
9	Risk analysis of TBM tunneling projects based on generic bow-tie risk analysis approach in difficult ground conditions. Tunnelling and Underground Space Technology, 2021, 111, 103860.	6.2	28
10	Implementation experiments on convolutional neural network training using synthetic images for 3D pose estimation of an excavator on real images. Automation in Construction, 2022, 133, 103996.	9.8	28
11	Association Rules Mined from Construction Accident Data. KSCE Journal of Civil Engineering, 2018, 22, 1027-1039.	1.9	26
12	Safety Assessment Using Imprecise Reliability for Corrosion–Damaged Structures. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 293-301.	9.8	23
13	Geotechnical Property Modeling and Construction Safety Zoning Based on GIS and BIM Integration. Applied Sciences (Switzerland), 2021, 11, 4004.	2.5	21
14	GIS Method for Haul Road Layout Planning in Large Earthmoving Projects: Framework and Analysis. Journal of Construction Engineering and Management - ASCE, 2013, 139, 236-246.	3.8	20
15	Spatial factors affecting the loading efficiency of excavators. Automation in Construction, 2014, 48, 97-106.	9.8	17
16	Utilization analysis methodology for fleet telematics of heavy earthwork equipment. Automation in Construction, 2018, 92, 59-67.	9.8	17
17	Optimal cut-fill pairing and sequencing method in earthwork operation. Automation in Construction, 2018, 87, 60-73.	9.8	17
18	Modular data communication methods for a robotic excavator. Automation in Construction, 2018, 90, 166-177.	9.8	17

#	Article	IF	Citations
19	The Integration of Earthwork Design Review and Planning Using UAV-Based Point Cloud and BIM. Applied Sciences (Switzerland), 2021, 11, 3435.	2.5	17
20	Graphical Control Interface for Construction and Maintenance Equipment. Journal of Construction Engineering and Management - ASCE, 2000, 126, 210-218.	3.8	14
21	Blade control in Cartesian space for leveling work by bulldozer. Automation in Construction, 2020, 118, 103264.	9.8	14
22	Effectiveness of remote control for a concrete surface grinding machine. Automation in Construction, 2010, 19, 734-741.	9.8	12
23	VIRTUAL GRAPHIC REPRESENTATION OF CONSTRUCTION EQUIPMENT FOR DEVELOPING A 3D EARTHWORK BIM. Journal of Civil Engineering and Management, 2017, 23, 977-984.	3.5	11
24	An Integrated HBIM Framework for the Management of Heritage Buildings. Buildings, 2022, 12, 964.	3.1	11
25	Cross-Section Designs for the Safety Performance of Buffer-Separated High-Occupancy Vehicle Lanes. Journal of Transportation Engineering, 2013, 139, 247-254.	0.9	9
26	Probabilistic value analysis methodology for public water supply systems. Civil Engineering and Environmental Systems, 2009, 26, 141-155.	0.9	6
27	Flexible Earthwork BIM Module Framework for Road Project. , 2017, , .		6
28	Improving safety in carriage-based formwork of concrete bridge decks. KSCE Journal of Civil Engineering, 2011, 15, 751-759.	1.9	5
29	A Comparative Analysis of Automated Machine Guidance and Control Systems for Trench Excavation. KSCE Journal of Civil Engineering, 2021, 25, 4065-4074.	1.9	4
30	Methodology for Voxel-Based Earthwork Modeling. Journal of Construction Engineering and Management - ASCE, 2021, 147, 04021111.	3.8	4
31	Prototyping a remotely-controlled machine for concrete surface grinding operations. Journal of Civil Engineering and Management, 2016, 23, 183-193.	3.5	3
32	Development and Assessment of an Intelligent Compaction System for Compaction Quality Monitoring, Assurance, and Management. Applied Sciences (Switzerland), 2022, 12, 6855.	2.5	3
33	Eco-economic excavator configuration method. Automation in Construction, 2018, 86, 138-149.	9.8	2
34	Design of a Tele-Robotic System for the Maintenance of Boiler Hoppers in Electric Power Plants. , 1998, , .		2
35	Value Rating Model for Intangible Assets in Civil Engineering Consulting Firms in Korea. KSCE Journal of Civil Engineering, 2018, 22, 4719-4731.	1.9	1
36	An Alternative Way to Determine Overall Performance of Infrastructure â€" A Case Study of Korean Infrastructure Facilities. KSCE Journal of Civil Engineering, 2019, 23, 1466-1472.	1.9	0