

Jongwon Seo

List of Publications by Year in descending order

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36
papers

771
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all docs

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36
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	An Integrated HBIM Framework for the Management of Heritage Buildings. Buildings, 2022, 12, 964.	3.1	11
3	Development and Assessment of an Intelligent Compaction System for Compaction Quality Monitoring, Assurance, and Management. Applied Sciences (Switzerland), 2022, 12, 6855.	2.5	3
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	The Integration of Earthwork Design Review and Planning Using UAV-Based Point Cloud and BIM. Applied Sciences (Switzerland), 2021, 11, 3435.	2.5	17
6	Geotechnical Property Modeling and Construction Safety Zoning Based on GIS and BIM Integration. Applied Sciences (Switzerland), 2021, 11, 4004.	2.5	21
7	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
8	BIM-GIS-Based Integrated Framework for Underground Utility Management System for Earthwork Operations. Applied Sciences (Switzerland), 2021, 11, 5721.	2.5	31
9	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
10	Methodology for Voxel-Based Earthwork Modeling. Journal of Construction Engineering and Management - ASCE, 2021, 147, 04021111.	3.8	4
11	Blade control in Cartesian space for leveling work by bulldozer. Automation in Construction, 2020, 118, 103264.	9.8	14
12	Task planning strategy and path similarity analysis for an autonomous excavator. Automation in Construction, 2020, 112, 103108.	9.8	34
13	An Alternative Way to Determine Overall Performance of Infrastructure "A Case Study of Korean Infrastructure Facilities. KSCE Journal of Civil Engineering, 2019, 23, 1466-1472.	1.9	0
14	Utilization analysis methodology for fleet telematics of heavy earthwork equipment. Automation in Construction, 2018, 92, 59-67.	9.8	17
15	Interaction analysis for vision-based activity identification of earthmoving excavators and dump trucks. Automation in Construction, 2018, 87, 297-308.	9.8	94
16	Optimal cut-fill pairing and sequencing method in earthwork operation. Automation in Construction, 2018, 87, 60-73.	9.8	17
17	Modular data communication methods for a robotic excavator. Automation in Construction, 2018, 90, 166-177.	9.8	17
18	Association Rules Mined from Construction Accident Data. KSCE Journal of Civil Engineering, 2018, 22, 1027-1039.	1.9	26

#	ARTICLE	IF	CITATIONS
19	Assessment of operator's situation awareness for smart operation of mobile cranes. Automation in Construction, 2018, 85, 65-75.	9.8	75
20	Eco-economic excavator configuration method. Automation in Construction, 2018, 86, 138-149.	9.8	2
21	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
22	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
23	Flexible Earthwork BIM Module Framework for Road Project. , 2017, , .		6
24	Prototyping a remotely-controlled machine for concrete surface grinding operations. Journal of Civil Engineering and Management, 2016, 23, 183-193.	3.5	3
25	Optical marker-based end effector pose estimation for articulated excavators. Automation in Construction, 2016, 65, 51-64.	9.8	48
26	Spatial factors affecting the loading efficiency of excavators. Automation in Construction, 2014, 48, 97-106.	9.8	17
27	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
28	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
29	Intelligent navigation strategies for an automated earthwork system. Automation in Construction, 2012, 21, 132-147.	9.8	35
30	Task planner design for an automated excavation system. Automation in Construction, 2011, 20, 954-966.	9.8	64
31	Improving safety in carriage-based formwork of concrete bridge decks. KSCE Journal of Civil Engineering, 2011, 15, 751-759.	1.9	5
32	Effectiveness of remote control for a concrete surface grinding machine. Automation in Construction, 2010, 19, 734-741.	9.8	12
33	Probabilistic value analysis methodology for public water supply systems. Civil Engineering and Environmental Systems, 2009, 26, 141-155.	0.9	6
34	Safety Assessment Using Imprecise Reliability for Corrosion-Damaged Structures. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 293-301.	9.8	23
35	Graphical Control Interface for Construction and Maintenance Equipment. Journal of Construction Engineering and Management - ASCE, 2000, 126, 210-218.	3.8	14
36	Design of a Tele-Robotic System for the Maintenance of Boiler Hoppers in Electric Power Plants. , 1998, , .		2