

Hyojoo Son

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,359
citations

201385

27
h-index

329751

37
g-index

40
all docs

40
docs citations

40
times ranked

1794
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated construction progress measurement using a 4D building information model and 3D data. Automation in Construction, 2013, 31, 75-82.	4.8	227
2	Toward an understanding of construction professionals' acceptance of mobile computing devices in South Korea: An extension of the technology acceptance model. Automation in Construction, 2012, 28, 82-90.	4.8	163
3	What drives the adoption of building information modeling in design organizations? An empirical investigation of the antecedents affecting architects' behavioral intentions. Automation in Construction, 2015, 49, 92-99.	4.8	158
4	Investigating the determinants of construction professionals' acceptance of web-based training: An extension of the technology acceptance model. Automation in Construction, 2012, 22, 377-386.	4.8	130
5	As-built data acquisition and its use in production monitoring and automated layout of civil infrastructure: A survey. Advanced Engineering Informatics, 2015, 29, 172-183.	4.0	116
6	3D structural component recognition and modeling method using color and 3D data for construction progress monitoring. Automation in Construction, 2010, 19, 844-854.	4.8	114
7	Fully automated registration of 3D data to a 3D CAD model for project progress monitoring. Automation in Construction, 2013, 35, 587-594.	4.8	104
8	Implementing sustainable development in the construction industry: constructors' perspectives in the US and Korea. Sustainable Development, 2011, 19, 337-347.	6.9	100
9	Short-term forecasting of electricity demand for the residential sector using weather and social variables. Resources, Conservation and Recycling, 2017, 123, 200-207.	5.3	89
10	Detection of construction workers under varying poses and changing background in image sequences via very deep residual networks. Automation in Construction, 2019, 99, 27-38.	4.8	89
11	Skeleton-based 3D reconstruction of as-built pipelines from laser-scan data. Automation in Construction, 2013, 35, 199-207.	4.8	83
12	Automated Color Model-Based Concrete Detection in Construction-Site Images by Using Machine Learning Algorithms. Journal of Computing in Civil Engineering, 2012, 26, 421-433.	2.5	78
13	3D reconstruction of as-built industrial instrumentation models from laser-scan data and a 3D CAD database based on prior knowledge. Automation in Construction, 2015, 49, 193-200.	4.8	72
14	Real-Time Vision-Based Warning System for Prevention of Collisions between Workers and Heavy Equipment. Journal of Computing in Civil Engineering, 2019, 33, .	2.5	64
15	Predicting financial distress of contractors in the construction industry using ensemble learning. Expert Systems With Applications, 2018, 110, 1-10.	4.4	59
16	Fully Automated As-Built 3D Pipeline Extraction Method from Laser-Scanned Data Based on Curvature Computation. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	58
17	Classification of major construction materials in construction environments using ensemble classifiers. Advanced Engineering Informatics, 2014, 28, 1-10.	4.0	57
18	Hybrid principal component analysis and support vector machine model for predicting the cost performance of commercial building projects using pre-project planning variables. Automation in Construction, 2012, 27, 60-66.	4.8	54

#	ARTICLE	IF	CITATIONS
19	Trend analysis of research and development on automation and robotics technology in the construction industry. KSCE Journal of Civil Engineering, 2010, 14, 131-139.	0.9	51
20	Automated Schedule Updates Using As-Built Data and a 4D Building Information Model. Journal of Management in Engineering - ASCE, 2017, 33, .	2.6	49
21	Cross-country review of smart grid adoption in residential buildings. Renewable and Sustainable Energy Reviews, 2015, 48, 192-213.	8.2	48
22	Rapid and automated determination of rusted surface areas of a steel bridge for robotic maintenance systems. Automation in Construction, 2014, 42, 13-24.	4.8	47
23	Comparison of Preproject Planning for Green and Conventional Buildings. Journal of Construction Engineering and Management - ASCE, 2013, 139, .	2.0	46
24	Semantic as-built 3D modeling of structural elements of buildings based on local concavity and convexity. Advanced Engineering Informatics, 2017, 34, 114-124.	4.0	38
25	Integrated worker detection and tracking for the safe operation of construction machinery. Automation in Construction, 2021, 126, 103670.	4.8	36
26	Early prediction of the performance of green building projects using pre-project planning variables: data mining approaches. Journal of Cleaner Production, 2015, 109, 144-151.	4.6	35
27	Evolutionary many-objective optimization for retrofit planning in public buildings: A comparative study. Journal of Cleaner Production, 2018, 190, 403-410.	4.6	31
28	A Deep Learning Approach to Forecasting Monthly Demand for Residential Sector Electricity. Sustainability, 2020, 12, 3103.	1.6	27
29	Automatic segmentation and 3D modeling of pipelines into constituent parts from laser-scan data of the built environment. Automation in Construction, 2016, 68, 203-211.	4.8	26
30	A Comparative Study of Machine Learning Classification for Color-based Safety Vest Detection on Construction-Site Images. KSCE Journal of Civil Engineering, 2018, 22, 4254-4262.	0.9	26
31	Rapid 3D object detection and modeling using range data from 3D range imaging camera for heavy equipment operation. Automation in Construction, 2010, 19, 898-906.	4.8	24
32	Applicability of flash laser distance and ranging to three-dimensional spatial information acquisition and modeling on a construction site. Canadian Journal of Civil Engineering, 2008, 35, 1331-1341.	0.7	12
33	Multiimaging Sensor Data Fusion-Based Enhancement for 3D Workspace Representation for Remote Machine Operation. Journal of Construction Engineering and Management - ASCE, 2013, 139, 434-444.	2.0	12
34	PREDICTION OF GOVERNMENT-OWNED BUILDING ENERGY CONSUMPTION BASED ON AN RRELIEFF AND SUPPORT VECTOR MACHINE MODEL. Journal of Civil Engineering and Management, 2015, 21, 748-760.	1.9	11
35	Longitudinal assessment of high-speed rail service delivery, satisfaction and operations: A study of Taiwan and Korea systems. KSCE Journal of Civil Engineering, 2017, 21, 2413-2428.	0.9	6
36	High-quality as-is 3D thermal modeling in MEP systems using a deep convolutional network. Advanced Engineering Informatics, 2019, 42, 100999.	4.0	6

#	ARTICLE	IF	CITATIONS
37	Semantic AsBuilt 3D Modeling of Buildings Under Construction from Laser-Scan Data Based on Local Convexity without an As-Planned Model. , 2015, , .		5
38	Automatic 3D Reconstruction of As-built Pipeline Based on Curvature Computations from Laser-Scanned Data. , 2014, , .		4
39	Construction professionalsâ€™ perceived benefits of PMIS: The effects of PMIS quality and computer self-efficacy. KSCE Journal of Civil Engineering, 2016, 20, 564-570.	0.9	2
40	Detection of Nearby Obstacles with Monocular Vision for Earthmoving Operations. , 2017, , .		2