

Hyojoo Son

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

1,613
citations

25
h-index

40
g-index

40
ext. papers

1,925
ext. citations

7.2
avg, IF

5.37
L-index

#	Paper	IF	Citations
40	Integrated worker detection and tracking for the safe operation of construction machinery. <i>Automation in Construction</i> , 2021 , 126, 103670	9.6	10
39	A Deep Learning Approach to Forecasting Monthly Demand for Residential Sector Electricity. <i>Sustainability</i> , 2020 , 12, 3103	3.6	16
38	Real-Time Vision-Based Warning System for Prevention of Collisions between Workers and Heavy Equipment. <i>Journal of Computing in Civil Engineering</i> , 2019 , 33, 04019029	5	35
37	High-quality as-is 3D thermal modeling in MEP systems using a deep convolutional network. <i>Advanced Engineering Informatics</i> , 2019 , 42, 100999	7.4	1
36	Detection of construction workers under varying poses and changing background in image sequences via very deep residual networks. <i>Automation in Construction</i> , 2019 , 99, 27-38	9.6	57
35	Evolutionary many-objective optimization for retrofit planning in public buildings: A comparative study. <i>Journal of Cleaner Production</i> , 2018 , 190, 403-410	10.3	21
34	A Comparative Study of Machine Learning Classification for Color-based Safety Vest Detection on Construction-Site Images. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 4254-4262	1.9	15
33	Predicting financial distress of contractors in the construction industry using ensemble learning. <i>Expert Systems With Applications</i> , 2018 , 110, 1-10	7.8	36
32	Short-term forecasting of electricity demand for the residential sector using weather and social variables. <i>Resources, Conservation and Recycling</i> , 2017 , 123, 200-207	11.9	55
31	Longitudinal assessment of high-speed rail service delivery, satisfaction and operations: A study of Taiwan and Korea systems. <i>KSCE Journal of Civil Engineering</i> , 2017 , 21, 2413-2428	1.9	6
30	Automated Schedule Updates Using As-Built Data and a 4D Building Information Model. <i>Journal of Management in Engineering - ASCE</i> , 2017 , 33, 04017012	5.3	35
29	Semantic as-built 3D modeling of structural elements of buildings based on local concavity and convexity. <i>Advanced Engineering Informatics</i> , 2017 , 34, 114-124	7.4	28
28	Detection of Nearby Obstacles with Monocular Vision for Earthmoving Operations 2017 ,		2
27	Construction professionals' perceived benefits of PMIS: The effects of PMIS quality and computer self-efficacy. <i>KSCE Journal of Civil Engineering</i> , 2016 , 20, 564-570	1.9	2
26	Automatic segmentation and 3D modeling of pipelines into constituent parts from laser-scan data of the built environment. <i>Automation in Construction</i> , 2016 , 68, 203-211	9.6	18
25	Fully Automated As-Built 3D Pipeline Extraction Method from Laser-Scanned Data Based on Curvature Computation. <i>Journal of Computing in Civil Engineering</i> , 2015 , 29,	5	40
24	Cross-country review of smart grid adoption in residential buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 48, 192-213	16.2	31

23	3D reconstruction of as-built industrial instrumentation models from laser-scan data and a 3D CAD database based on prior knowledge. <i>Automation in Construction</i> , 2015 , 49, 193-200	9.6	57
22	What drives the adoption of building information modeling in design organizations? An empirical investigation of the antecedents affecting architects' behavioral intentions. <i>Automation in Construction</i> , 2015 , 49, 92-99	9.6	110
21	Early prediction of the performance of green building projects using pre-project planning variables: data mining approaches. <i>Journal of Cleaner Production</i> , 2015 , 109, 144-151	10.3	25
20	PREDICTION OF GOVERNMENT-OWNED BUILDING ENERGY CONSUMPTION BASED ON AN RRELIEFF AND SUPPORT VECTOR MACHINE MODEL. <i>Journal of Civil Engineering and Management</i> , 2015 , 21, 748-760	3	4
19	As-built data acquisition and its use in production monitoring and automated layout of civil infrastructure: A survey. <i>Advanced Engineering Informatics</i> , 2015 , 29, 172-183	7.4	86
18	Semantic AsBuilt 3D Modeling of Buildings Under Construction from Laser-Scan Data Based on Local Convexity without an As-Planned Model 2015 ,		3
17	Rapid and automated determination of rusted surface areas of a steel bridge for robotic maintenance systems. <i>Automation in Construction</i> , 2014 , 42, 13-24	9.6	36
16	Classification of major construction materials in construction environments using ensemble classifiers. <i>Advanced Engineering Informatics</i> , 2014 , 28, 1-10	7.4	39
15	Automatic 3D Reconstruction of As-built Pipeline Based on Curvature Computations from Laser-Scanned Data 2014 ,		3
14	Fully automated registration of 3D data to a 3D CAD model for project progress monitoring. <i>Automation in Construction</i> , 2013 , 35, 587-594	9.6	70
13	Skeleton-based 3D reconstruction of as-built pipelines from laser-scan data. <i>Automation in Construction</i> , 2013 , 35, 199-207	9.6	66
12	Automated construction progress measurement using a 4D building information model and 3D data. <i>Automation in Construction</i> , 2013 , 31, 75-82	9.6	151
11	Comparison of Preproject Planning for Green and Conventional Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013 , 139, 04013018	4.2	30
10	Multiimaging Sensor Data Fusion-Based Enhancement for 3D Workspace Representation for Remote Machine Operation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013 , 139, 434-444	4.2	10
9	Investigating the determinants of construction professionals' acceptance of web-based training: An extension of the technology acceptance model. <i>Automation in Construction</i> , 2012 , 22, 377-386	9.6	90
8	Toward an understanding of construction professionals' acceptance of mobile computing devices in South Korea: An extension of the technology acceptance model. <i>Automation in Construction</i> , 2012 , 28, 82-90	9.6	121
7	Hybrid principal component analysis and support vector machine model for predicting the cost performance of commercial building projects using pre-project planning variables. <i>Automation in Construction</i> , 2012 , 27, 60-66	9.6	39
6	Automated Color ModelBased Concrete Detection in Construction-Site Images by Using Machine Learning Algorithms. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 421-433	5	61

5	Implementing sustainable development in the construction industry: constructors' perspectives in the US and Korea. <i>Sustainable Development</i> , 2011 , 19, 337-347	6.7	73
4	3D structural component recognition and modeling method using color and 3D data for construction progress monitoring. <i>Automation in Construction</i> , 2010 , 19, 844-854	9.6	76
3	Trend analysis of research and development on automation and robotics technology in the construction industry. <i>KSCE Journal of Civil Engineering</i> , 2010 , 14, 131-139	1.9	25
2	Rapid 3D object detection and modeling using range data from 3D range imaging camera for heavy equipment operation. <i>Automation in Construction</i> , 2010 , 19, 898-906	9.6	20
1	Applicability of flash laser distance and ranging to three-dimensional spatial information acquisition and modeling on a construction site. <i>Canadian Journal of Civil Engineering</i> , 2008 , 35, 1331-1341	1.3	10