Hyojoo Son

List of Publications by Citations

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	Automated construction progress measurement using a 4D building information model and 3D data. *Automation in Construction*, **2013**, 31, 75-82	9.6	151
39	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	9.6	121
38	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	9.6	110
37	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	9.6	90
36	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	7.4	86
35	3D structural component recognition and modeling method using color and 3D data for construction progress monitoring. *Automation in Construction*, **2010**, 19, 844-854	9.6	76
34	Implementing sustainable development in the construction industry: constructors' perspectives in the US and Korea. *Sustainable Development*, **2011**, 19, 337-347	6.7	73
33	Fully automated registration of 3D data to a 3D CAD model for project progress monitoring. *Automation in Construction*, **2013**, 35, 587-594	9.6	70
32	Skeleton-based 3D reconstruction of as-built pipelines from laser-scan data. *Automation in Construction*, **2013**, 35, 199-207	9.6	66
31	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	5	61
30	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	9.6	57
29	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	9.6	57
28	Short-term forecasting of electricity demand for the residential sector using weather and social variables. *Resources, Conservation and Recycling*, **2017**, 123, 200-207	11.9	55
27	Fully Automated As-Built 3D Pipeline Extraction Method from Laser-Scanned Data Based on Curvature Computation. *Journal of Computing in Civil Engineering*, **2015**, 29,	5	40
26	Classification of major construction materials in construction environments using ensemble classifiers. *Advanced Engineering Informatics*, **2014**, 28, 1-10	7.4	39
25	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	9.6	39
24	Rapid and automated determination of rusted surface areas of a steel bridge for robotic maintenance systems. *Automation in Construction*, **2014**, 42, 13-24	9.6	36

23	Predicting financial distress of contractors in the construction industry using ensemble learning. *Expert Systems With Applications*, **2018**, 110, 1-10	7.8	36
22	Automated Schedule Updates Using As-Built Data and a 4D Building Information Model. *Journal of Management in Engineering - ASCE*, **2017**, 33, 04017012	5.3	35
21	Real-Time Vision-Based Warning System for Prevention of Collisions between Workers and Heavy Equipment. *Journal of Computing in Civil Engineering*, **2019**, 33, 04019029	5	35
20	Cross-country review of smart grid adoption in residential buildings. *Renewable and Sustainable Energy Reviews*, **2015**, 48, 192-213	16.2	31
19	Comparison of Preproject Planning for Green and Conventional Buildings. *Journal of Construction Engineering and Management - ASCE*, **2013**, 139, 04013018	4.2	30
18	Semantic as-built 3D modeling of structural elements of buildings based on local concavity and convexity. *Advanced Engineering Informatics*, **2017**, 34, 114-124	7.4	28
17	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	10.3	25
16	Trend analysis of research and development on automation and robotics technology in the construction industry. *KSCE Journal of Civil Engineering*, **2010**, 14, 131-139	1.9	25
15	Evolutionary many-objective optimization for retrofit planning in public buildings: A comparative study. *Journal of Cleaner Production*, **2018**, 190, 403-410	10.3	21
14	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	9.6	20
13	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	9.6	18
12	A Deep Learning Approach to Forecasting Monthly Demand for Residential-Sector Electricity. *Sustainability*, **2020**, 12, 3103	3.6	16
11	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	1.9	15
10	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	4.2	10
9	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	1.3	10
8	Integrated worker detection and tracking for the safe operation of construction machinery. *Automation in Construction*, **2021**, 126, 103670	9.6	10
7	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	1.9	6
6	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	3	4

5	Automatic 3D Reconstruction of As-built Pipeline Based on Curvature Computations from Laser-Scanned Data **2014**,		3
4	Semantic AsBuilt 3D Modeling of Buildings Under Construction from Laser-Scan Data Based on Local Convexity without an As-Planned Model **2015**,		3
3	Construction professionals perceived benefits of PMIS: The effects of PMIS quality and computer self-efficacy. *KSCE Journal of Civil Engineering*, **2016**, 20, 564-570	1.9	2
2	Detection of Nearby Obstacles with Monocular Vision for Earthmoving Operations **2017**,		2
1	High-quality as-is 3D thermal modeling in MEP systems using a deep convolutional network. *Advanced Engineering Informatics*, **2019**, 42, 100999	7.4	1