Changmin Kim

List of Publications by Year
in descending order

21 papers	925 citations	758635 12 h-index	794141 19 g-index
21 all docs	21 docs citations	21 times ranked	759 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	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
3	Skeleton-based 3D reconstruction of as-built pipelines from laser-scan data. Automation in Construction, 2013, 35, 199-207.	4.8	83
4	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
5	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
6	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
7	Classification of major construction materials in construction environments using ensemble classifiers. Advanced Engineering Informatics, 2014, 28, 1-10.	4.0	57
8	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
9	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
10	An investigation of the applicability of sustainability and lean concepts to small construction projects. KSCE Journal of Civil Engineering, 2012, 16, 699-707.	0.9	42
11	Improvement of Grid Independence Test for Computational Fluid Dynamics Model of Building Based on Grid Resolution. Advances in Civil Engineering, 2020, 2020, 1-11.	0.4	25
12	Thermal anomaly detection in walls via CNN-based segmentation. Automation in Construction, 2021, 125, 103627.	4.8	20
13	Automated classification of thermal defects in the building envelope using thermal and visible images. Quantitative InfraRed Thermography Journal, 2023, 20, 106-122.	2.1	14
14	Automatic Detection of Linear Thermal Bridges from Infrared Thermal Images Using Neural Network. Applied Sciences (Switzerland), 2021, 11, 931.	1.3	12
15	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
16	Building Geometry Simplification for Improving Mesh Quality of Numerical Analysis Model. Applied Sciences (Switzerland), 2020, 10, 5425.	1.3	7
17	Automatic 3D Reconstruction of As-built Pipeline Based on Curvature Computations from Laser-Scanned Data. , 2014, , .		4
18	Development of Building CFD Model Design Process Based on BIM. Applied Sciences (Switzerland), 2021, 11, 1252.	1.3	4

#	Article	IF	Citations
19	Detailed and fast calculation of wall surface temperatures near thermal bridge area. Case Studies in Thermal Engineering, 2021, 25, 100936.	2.8	4
20	Dynamic thermal bridge evaluation of window-wall joints using a model-based thermography method. Case Studies in Thermal Engineering, 2022, 35, 102117.	2.8	2
21	Automated Conversion of Building Information Modeling (BIM) Geometry Data for Window Thermal Performance Simulation. Advances in Civil Engineering, 2019, 2019, 1-13.	0.4	0