

# Changmin Kim

## List of Publications by Year in descending order

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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 classification of thermal defects in the building envelope using thermal and visible images. Quantitative InfraRed Thermography Journal, 2023, 20, 106-122.	2.1	14
2	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
3	Development of Building CFD Model Design Process Based on BIM. Applied Sciences (Switzerland), 2021, 11, 1252.	1.3	4
4	Automatic Detection of Linear Thermal Bridges from Infrared Thermal Images Using Neural Network. Applied Sciences (Switzerland), 2021, 11, 931.	1.3	12
5	Thermal anomaly detection in walls via CNN-based segmentation. Automation in Construction, 2021, 125, 103627.	4.8	20
6	Detailed and fast calculation of wall surface temperatures near thermal bridge area. Case Studies in Thermal Engineering, 2021, 25, 100936.	2.8	4
7	Building Geometry Simplification for Improving Mesh Quality of Numerical Analysis Model. Applied Sciences (Switzerland), 2020, 10, 5425.	1.3	7
8	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
9	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
10	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
11	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
12	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
13	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
14	Classification of major construction materials in construction environments using ensemble classifiers. Advanced Engineering Informatics, 2014, 28, 1-10.	4.0	57
15	Automatic 3D Reconstruction of As-built Pipeline Based on Curvature Computations from Laser-Scanned Data. , 2014, , .		4
16	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
17	Skeleton-based 3D reconstruction of as-built pipelines from laser-scan data. Automation in Construction, 2013, 35, 199-207.	4.8	83
18	Automated construction progress measurement using a 4D building information model and 3D data. Automation in Construction, 2013, 31, 75-82.	4.8	227

#	ARTICLE	IF	CITATIONS
19	Automated Color Model-Based Concrete Detection in Construction-Site Images by Using Machine Learning Algorithms. <i>Journal of Computing in Civil Engineering</i> , 2012, 26, 421-433.	2.5	78
20	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.	4.8	54
21	An investigation of the applicability of sustainability and lean concepts to small construction projects. <i>KSCE Journal of Civil Engineering</i> , 2012, 16, 699-707.	0.9	42