

# Ghang Lee

## List of Publications by Citations

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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.

74  
papers

1,651  
citations

21  
h-index

39  
g-index

81  
ext. papers

1,997  
ext. citations

5.8  
avg. IF

5.22  
L-index

#	Paper	IF	Citations
74	<b>2018,</b>		196
73	Specifying parametric building object behavior (BOB) for a building information modeling system. <i>Automation in Construction</i> , <b>2006</b> , 15, 758-776	9.6	195
72	Parametric 3D modeling in building construction with examples from precast concrete. <i>Automation in Construction</i> , <b>2004</b> , 13, 291-312	9.6	127
71	Where to Focus for Successful Adoption of Building Information Modeling within Organization. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2013</b> , 139, 04013014	4.2	109
70	Quantification of construction waste prevented by BIM-based design validation: Case studies in South Korea. <i>Waste Management</i> , <b>2016</b> , 49, 170-180	8.6	90
69	A BIM- and sensor-based tower crane navigation system for blind lifts. <i>Automation in Construction</i> , <b>2012</b> , 26, 1-10	9.6	81
68	D3 City project [Economic impact of BIM-assisted design validation. <i>Automation in Construction</i> , <b>2012</b> , 22, 577-586	9.6	67
67	Process Model Perspectives on Management and Engineering Procedures in the Precast/Prestressed Concrete Industry. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2004</b> , 130, 206-215	4.2	57
66	A laser-technology-based lifting-path tracking system for a robotic tower crane. <i>Automation in Construction</i> , <b>2009</b> , 18, 865-874	9.6	56
65	How to tell if a BIM project is successful: A goal-driven approach. <i>Automation in Construction</i> , <b>2016</b> , 69, 34-43	9.6	47
64	An analysis of BIM jobs and competencies based on the use of terms in the industry. <i>Automation in Construction</i> , <b>2017</b> , 81, 67-98	9.6	38
63	Process, productivity, and economic analyses of BIM-based multi-trade prefabrication: A case study. <i>Automation in Construction</i> , <b>2018</b> , 89, 86-98	9.6	31
62	Parallel vs. Sequential Cascading MEP Coordination Strategies: A Pharmaceutical Building Case Study. <i>Automation in Construction</i> , <b>2014</b> , 43, 170-179	9.6	31
61	Eliciting information for product modeling using process modeling. <i>Data and Knowledge Engineering</i> , <b>2007</b> , 62, 292-307	1.5	31
60	Extended Process to Product Modeling (xPPM) for integrated and seamless IDM and MVD development. <i>Advanced Engineering Informatics</i> , <b>2013</b> , 27, 636-651	7.4	30
59	No-Schema Algorithm for Extracting a Partial Model from an IFC Instance Model. <i>Journal of Computing in Civil Engineering</i> , <b>2013</b> , 27, 585-592	5	25
58	Automated classification of building information modeling (BIM) case studies by BIM use based on natural language processing (NLP) and unsupervised learning. <i>Advanced Engineering Informatics</i> , <b>2019</b> , 41, 100917	7.4	24

57	Usability principles and best practices for the user interface design of complex 3D architectural design and engineering tools. <i>International Journal of Human Computer Studies</i> , <b>2010</b> , 68, 90-104	4.6	24
56	A Target Benchmark of the Impact of Three-Dimensional Parametric Modeling in Precast Construction. <i>PCI Journal</i> , <b>2005</b> , 50, 126-139	2.1	24
55	Metrics for Quantifying the Similarities and Differences between IFC Files. <i>Journal of Computing in Civil Engineering</i> , <b>2011</b> , 25, 172-181	5	22
54	Grammatical rules for specifying information for automated product data modeling. <i>Advanced Engineering Informatics</i> , <b>2006</b> , 20, 155-170	7.4	22
53	Query Performance of the IFC Model Server Using an Object-Relational Database Approach and a Traditional Relational Database Approach. <i>Journal of Computing in Civil Engineering</i> , <b>2014</b> , 28, 210-222	5	21
52	Design coordination strategies in a 2D and BIM mixed-project environment: social dynamics and productivity. <i>Building Research and Information</i> , <b>2017</b> , 45, 631-648	4.3	20
51	Case Study of Mass Customization of Double-Curved Metal Façade Panels Using a New Hybrid Sheet Metal Processing Technique. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2012</b> , 138, 1322-1330	4.2	20
50	Life-Cycle Cost Analysis on Glass Type of High-Rise Buildings for Increasing Energy Efficiency and Reducing CO2 Emissions in Korea. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2012</b> , 138, 897-904	4.2	20
49	Requirements for computational rule checking of requests for proposals (RFPs) for building designs in South Korea. <i>Advanced Engineering Informatics</i> , <b>2015</b> , 29, 602-615	7.4	15
48	An automated direction setting algorithm for a smart exit sign. <i>Automation in Construction</i> , <b>2015</b> , 59, 139-148	9.6	13
47	Enhancing Subcontractors' Participation in BIM-Based Design Coordination under a DBB Contract. <i>Journal of Management in Engineering - ASCE</i> , <b>2019</b> , 35, 04019022	5.3	13
46	What Information Can or Cannot Be Exchanged?. <i>Journal of Computing in Civil Engineering</i> , <b>2011</b> , 25, 1-9	5	13
45	Product data modeling using GTPPM: A case study. <i>Automation in Construction</i> , <b>2007</b> , 16, 392-407	9.6	13
44	Avoiding design errors: a case study of redesigning an architectural studio. <i>Design Studies</i> , <b>2003</b> , 24, 411-435	4.5	13
43	Concept-Based Method for Extracting Valid Subsets from an EXPRESS Schema. <i>Journal of Computing in Civil Engineering</i> , <b>2009</b> , 23, 128-135	5	12
42	Decision tree for selecting retaining wall systems based on logistic regression analysis. <i>Automation in Construction</i> , <b>2010</b> , 19, 917-928	9.6	11
41	Analysis of field applicability of the rotation-controllable tower-crane hook block. <i>Automation in Construction</i> , <b>2012</b> , 21, 81-88	9.6	9
40	Slim BIM Charts for Rapidly Visualizing and Quantifying Levels of BIM Adoption and Implementation. <i>Journal of Computing in Civil Engineering</i> , <b>2016</b> , 30, 04015072	5	8

39	Process Improvements in Precast Concrete Construction Using Top-Down Parametric 3-D Computer Modeling. <i>PCI Journal</i> , <b>2003</b> , 48, 46-55	2.1	8
38	A cost-plus estimating framework for BIM related design and engineering services. <i>KSCE Journal of Civil Engineering</i> , <b>2017</b> , 21, 2558-2566	1.9	7
37	Unscented information filtering method for reducing multiple sensor registration error <b>2008</b> ,		7
36	Impact of organizational factors on delays in BIM-based coordination from a decision-making view: a case study. <i>Journal of Civil Engineering and Management</i> , <b>2018</b> , 24, 19-30	3	7
35	A Quantitative Analysis of Fatal Accidents Related to Cranes Using the FMEA Method. <i>Journal of the Korea Institute of Building Construction</i> , <b>2007</b> , 7, 115-122		7
34	Learning in Global Teams: BIM Planning and Coordination. <i>International Journal of Automation and Smart Technology</i> , <b>2015</b> , 5, 119-135		7
33	Prototype development and test of a server-independent smart exit sign system: An algorithm, a hardware configuration, and its communication reliability. <i>Automation in Construction</i> , <b>2018</b> , 90, 213-222	9.6	6
32	Algorithm for Efficiently Extracting IFC Building Elements from an IFC Building Model <b>2011</b> ,		6
31	Strategies for Realizing the Benefits of 3D Integrated Modeling of Buildings for the AEC Industry <b>2002</b> ,		6
30	Time-Based Joining Method for Generating Phylogenetic Trees of Architectural Plans. <i>Journal of Computing in Civil Engineering</i> , <b>2017</b> , 31, 04016055	5	5
29	Feasibility of beam erection with a motorized hook-block. <i>Automation in Construction</i> , <b>2014</b> , 41, 25-32	9.6	4
28	Adoption of Virtual Technology to the Development of a BIM based PMIS. <i>Journal of the Korea Institute of Building Construction</i> , <b>2013</b> , 13, 333-340		4
27	Development of a Real-time Lifting-path Tracking System of a Tower-crane for Steel Members based on an Integrated Wireless RF Modem and GPS System. <i>Journal of the Korea Institute of Building Construction</i> , <b>2010</b> , 10, 65-70		4
26	Field applicability and feasibility of the automated non-powered multi-beam lifting system. <i>Automation in Construction</i> , <b>2012</b> , 28, 26-35	9.6	3
25	Twelve Design Patterns for Integrating and Normalizing Product Model Schemas. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2007</b> , 22, 163-181	8.4	3
24	A Study on Practical Ways to Improve Pricing Criteria for Technical Service Contracts. <i>Korean Journal of Construction Engineering and Management</i> , <b>2014</b> , 15, 33-43		3
23	Space-connector model for representing the geometric properties of connections between spaces. <i>Architectural Science Review</i> , <b>2018</b> , 61, 429-442	2.6	3
22	Prototype development of responsive kinetic façade control system for the elderly based on Ambient Assisted Living. <i>Architectural Science Review</i> , <b>2019</b> , 62, 273-285	2.6	2

21	Facilitators of BIM Adoption and Implementation <b>2018</b> , 323-363		2
20	A Study on the Development Direction of a BIM Performance Assessment Tool. <i>Journal of Korea Spatial Information Society</i> , <b>2013</b> , 21, 53-62		2
19	A Study on the Prediction of Referral Intension based on Customer Satisfaction in Construction Management. <i>Korean Journal of Construction Engineering and Management</i> , <b>2010</b> , 11, 100-110		2
18	Classification of Images from Construction Sites Using a Deep-Learning Algorithm <b>2018</b> ,		2
17	Analysis of the Technology Adoption Impact Factors for Automated Construction Equipment. <i>Korean Journal of Construction Engineering and Management</i> , <b>2013</b> , 14, 56-64		2
16	Framework for technical specifications of 3D concrete printers. <i>Automation in Construction</i> , <b>2021</b> , 127, 103732	9.6	2
15	Effectiveness of a Simplified Pullout Test Using a Post-Installable Break-Off Bolt. <i>Research in Nondestructive Evaluation</i> , <b>2013</b> , 24, 1-17	0.9	1
14	A Study of Sight Area Rate Analysis Algorithm on Theater Design <b>2011</b> ,		1
13	Classification of the Requirement Sentences of the US DOT Standard Specification Using Deep Learning Algorithms. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 89-97	0.3	1
12	An Analysis of the Duration of the Construction Document Phase of Large Public Building Projects Delivered by the Total Solution Service from 2009 to 2014. <i>Korean Journal of Construction Engineering and Management</i> , <b>2015</b> , 16, 89-97		1
11	Natural Language Processing-Driven Model to Extract Contract Change Reasons and Altered Work Items for Advanced Retrieval of Change Orders. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2021</b> , 147, 04021147	4.2	1
10	Collaboration and Interoperability <b>2018</b> , 85-129		0
9	A relational framework for smart information delivery manual (IDM) specifications. <i>Advanced Engineering Informatics</i> , <b>2021</b> , 49, 101319	7.4	0
8	Information Requirements for Managing Higher Education Facilities Using Building Information Modeling: Triangular Study of US and Korean Cases. <i>Journal of Computing in Civil Engineering</i> , <b>2021</b> , 35, 04021025	5	0
7	Core Technologies and Software <b>2018</b> , 32-84		
6	Quantitative Model for Predicting the Referential Intention of Construction Management Services. <i>Journal of Management in Engineering - ASCE</i> , <b>2015</b> , 31, 05014023	5.3	
5	Creative process and experiences leading to creative achievement in the case of accomplished architects. <i>Asia Pacific Education Review</i> , <b>2017</b> , 18, 253-268	1.2	
4	Construction Field Management Using a Popular Text Messenger. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 971-979	0.3	

- 3 Development of Post-installable Pullout Bolts and a Loading Device for Evaluating Concrete Strength. *Journal of the Korea Institute of Building Construction*, **2011**, 11, 229-237
- 2 Method for Composing a Portfolio for REITs Investment Using Markowitz's Portfolio Model. *Journal of Construction Engineering and Project Management*, **2011**, 1, 28-37
- 1 A Priority and Impact Factor Analysis of Construction Management Tasks for Decreasing Change Orders and Defect Repairs in Cancer Treatment Center Projects. *Korean Journal of Construction Engineering and Management*, **2013**, 14, 55-64