

# Ghang Lee

## 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.

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	Construction Field Management Using a Popular Text Messenger. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 971-979	0.3	
73	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
72	Framework for technical specifications of 3D concrete printers. <i>Automation in Construction</i> , <b>2021</b> , 127, 103732	9.6	2
71	A relational framework for smart information delivery manual (IDM) specifications. <i>Advanced Engineering Informatics</i> , <b>2021</b> , 49, 101319	7.4	0
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	Core Technologies and Software <b>2018</b> , 32-84		
62	Collaboration and Interoperability <b>2018</b> , 85-129		0
61	Facilitators of BIM Adoption and Implementation <b>2018</b> , 323-363		2
60	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
59	Classification of Images from Construction Sites Using a Deep-Learning Algorithm <b>2018</b> ,		2
58	<b>2018</b> ,		196

57	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
56	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
55	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
54	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
53	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	
52	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
51	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
50	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
49	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
48	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
47	An automated direction setting algorithm for a smart exit sign. <i>Automation in Construction</i> , <b>2015</b> , 59, 139-148	9.6	13
46	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	
45	Learning in Global Teams: BIM Planning and Coordination. <i>International Journal of Automation and Smart Technology</i> , <b>2015</b> , 5, 119-135		7
44	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
43	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
42	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
41	Feasibility of beam erection with a motorized hook-block. <i>Automation in Construction</i> , <b>2014</b> , 41, 25-32	9.6	4
40	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

39	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
38	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
37	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
36	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
35	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
34	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
33	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
32	A Priority and Impact Factor Analysis of Construction Management Tasks for Decreasing Change Orders and Defect Repairs in Cancer Treatment Center Projects. <i>Korean Journal of Construction Engineering and Management</i> , <b>2013</b> , 14, 55-64		
31	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
30	D3 City project Economic impact of BIM-assisted design validation. <i>Automation in Construction</i> , <b>2012</b> , 22, 577-586	9.6	67
29	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
28	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
27	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
26	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
25	A Study of Sight Area Rate Analysis Algorithm on Theater Design <b>2011</b> ,		1
24	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
23	What Information Can or Cannot Be Exchanged?. <i>Journal of Computing in Civil Engineering</i> , <b>2011</b> , 25, 1-9	5	13
22	Algorithm for Efficiently Extracting IFC Building Elements from an IFC Building Model <b>2011</b> ,		6

21	Development of Post-installable Pullout Bolts and a Loading Device for Evaluating Concrete Strength. <i>Journal of the Korea Institute of Building Construction</i> , <b>2011</b> , 11, 229-237		
20	Method for Composing a Portfolio for REITs Investment Using Markowitz's Portfolio Model. <i>Journal of Construction Engineering and Project Management</i> , <b>2011</b> , 1, 28-37		
19	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
18	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
17	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
16	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
15	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
14	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
13	Unscented information filtering method for reducing multiple sensor registration error <b>2008</b> ,		7
12	Eliciting information for product modeling using process modeling. <i>Data and Knowledge Engineering</i> , <b>2007</b> , 62, 292-307	1.5	31
11	Product data modeling using GTPPM A case study. <i>Automation in Construction</i> , <b>2007</b> , 16, 392-407	9.6	13
10	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
9	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
8	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
7	Grammatical rules for specifying information for automated product data modeling. <i>Advanced Engineering Informatics</i> , <b>2006</b> , 20, 155-170	7.4	22
6	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
5	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
4	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

- 3 Avoiding design errors: a case study of redesigning an architectural studio. *Design Studies*, **2003**, 24, 411-485 13
- 2 Process Improvements in Precast Concrete Construction Using Top-Down Parametric 3-D Computer Modeling. *PCI Journal*, **2003**, 48, 46-55 2.1 8
- 1 Strategies for Realizing the Benefits of 3D Integrated Modeling of Buildings for the AEC Industry **2002**, 6