

# Yong-Cheol Lee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2413562/publications.pdf>

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39  
papers

1,222  
citations

393982

19  
h-index

610482

24  
g-index

42  
all docs

42  
docs citations

42  
times ranked

731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semantic web technologies in AEC industry: A literature overview. Automation in Construction, 2017, 73, 145-165.	4.8	274
2	Automated Methods for Activity Recognition of Construction Workers and Equipment: State-of-the-Art Review. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	110
3	An ontology-based approach for developing data exchange requirements and model views of building information modeling. Advanced Engineering Informatics, 2016, 30, 354-367.	4.0	79
4	Validations for ensuring the interoperability of data exchange of a building information model. Automation in Construction, 2015, 58, 176-195.	4.8	68
5	A simplified relational database schema for transformation of BIM data into a query-efficient and spatially enabled database. Automation in Construction, 2017, 84, 367-383.	4.8	65
6	Logic for ensuring the data exchange integrity of building information models. Automation in Construction, 2018, 85, 249-262.	4.8	50
7	Modularized rule-based validation of a BIM model pertaining to model views. Automation in Construction, 2016, 63, 1-11.	4.8	49
8	Automated BIM data validation integrating open-standard schema with visual programming language. Advanced Engineering Informatics, 2019, 40, 14-28.	4.0	48
9	Evidence-driven sound detection for prenotification and identification of construction safety hazards and accidents. Automation in Construction, 2020, 113, 103127.	4.8	47
10	Multiple representation approach to achieve high-performance spatial queries of 3D BIM data using a relational database. Automation in Construction, 2017, 81, 369-388.	4.8	39
11	The Mechanism and Challenges of Validating a Building Information Model regarding data exchange standards. Automation in Construction, 2019, 100, 118-128.	4.8	39
12	Toward robust and quantifiable automated IFC quality validation. Advanced Engineering Informatics, 2015, 29, 739-756.	4.0	34
13	Advanced Sound Classifiers and Performance Analyses for Accurate Audio-Based Construction Project Monitoring. Journal of Computing in Civil Engineering, 2020, 34, .	2.5	32
14	Deep Belief Network based audio classification for construction sites monitoring. Expert Systems With Applications, 2021, 177, 114839.	4.4	31
15	A Hybrid Kinematic-Acoustic System for Automated Activity Detection of Construction Equipment. Sensors, 2019, 19, 4286.	2.1	29
16	Automated Generation of Daily Evacuation Paths in 4D BIM. Applied Sciences (Switzerland), 2019, 9, 1789.	1.3	26
17	Data-Driven Reverse Engineering Algorithm Development Method for Developing Interoperable Quantity Takeoff Algorithms Using IFC-Based BIM. Journal of Computing in Civil Engineering, 2020, 34, .	2.5	24
18	Prioritizing Postdisaster Recovery of Transportation Infrastructure Systems Using Multiagent Reinforcement Learning. Journal of Management in Engineering - ASCE, 2021, 37, 04020100.	2.6	22

#	ARTICLE	IF	CITATIONS
19	Simplified schema queries for supporting BIM-based rule-checking applications. Automation in Construction, 2020, 117, 103248.	4.8	21
20	Deep Recurrent Neural Networks for Audio Classification in Construction Sites. , 2021, , .		19
21	A CNN Approach for Audio Classification in Construction Sites. Smart Innovation, Systems and Technologies, 2021, , 371-381.	0.5	17
22	Sound Recognition Techniques for Multi-Layered Construction Activities and Events. , 2017, , .		15
23	Rules and validation processes for interoperable BIM data exchange. Journal of Computational Design and Engineering, 2021, 8, 97-114.	1.5	14
24	The Critical Role of Accessible Data for BIM-Based Automated Rule Checking Systems. , 0, , .		12
25	Generation of Entity-Based Integrated Model View Definition Modules for the Development of New BIM Data Exchange Standards. Journal of Computing in Civil Engineering, 2020, 34, 04020011.	2.5	6
26	BIM-Based Construction Noise Hazard Prediction and Visualization for Occupational Safety and Health Awareness Improvement. , 2017, , .		5
27	Graphical Scripting Approach Integrated with Speech Recognition for BIM-Based Rule Checking. , 2018, , .		5
28	A Comparative Analysis of Five Rule-Based Model Checking Platforms. , 2020, , .		4
29	Digital Twin in Construction Safety and Its Implications for Automated Monitoring and Management. , 2022, , .		4
30	Entity-Based MVD Concept Module Generation for Development of New BIM Data Exchange Standards. , 2019, , .		3
31	Construction Data-Driven Dynamic Sound Data Training and Hardware Requirements for Autonomous Audio-based Site Monitoring. , 2019, , .		3
32	Effects of flooding on pavement performance: a machine learning-based network-level assessment. Sustainable and Resilient Infrastructure, 2022, 7, 695-714.	1.7	3
33	Developing an Advanced Automated Modular Housing Design System Using Deep Learning and Building Information Modeling (BIM). , 2022, , .		3
34	Integrating AI in an Audio-Based Digital Twin for Autonomous Management of Roadway Construction. , 2022, , .		2
35	Framework for Measuring Infrastructure Vulnerability and Resiliency of Communities during a Flood Disaster. , 2022, , .		2
36	Web-Based Data Federation, Archiving, and Curating of Construction Activity and Operation Sounds. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	A Conversation Analysis Framework Using Speech Recognition and Naïve Bayes Classification for Construction Process Monitoring. , 2018, , .		0
38	Drug Use: Impact, Rules, Regulations and Mitigation Practices in the Construction Industry in the U.S. Safety, 2020, 6, 32.	0.9	0
39	Closure to "Multiobjective Optimization of Postdisaster Reconstruction Processes for Ensuring Long-Term Socioeconomic Benefits" by Pedram Ghannad, Yong-Cheol Lee, Carol J. Friedland, Jin Ouk Choi, and Eunhwa Yang. Journal of Management in Engineering - ASCE, 2021, 37, 07021002.	2.6	0