

# Jiansong Zhang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/108012/jiansong-zhang-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

470<sup>o</sup>  
citations

9  
h-index

20  
g-index

75  
ext. papers

737  
ext. citations

5  
avg, IF

4.82  
L-index

#	Paper	IF	Citations
45	BIM-based simulation of construction robotics in the assembly process of wood frames. <i>Automation in Construction</i> , <b>2022</b> , 137, 104194	9.6	0
44	Regulatory information transformation ruleset expansion to support automated building code compliance checking. <i>Automation in Construction</i> , <b>2022</b> , 138, 104230	9.6	0
43	Invariant Signatures of Architecture, Engineering, and Construction Objects to Support BIM Interoperability between Architectural Design and Structural Analysis. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2021</b> , 147, 04020148	4.2	9
42	Erratum for Building Codes Part-of-Speech Tagging Performance Improvement by Error-Driven Transformational Rules by Xiaorui Xue and Jiansong Zhang. <i>Journal of Computing in Civil Engineering</i> , <b>2021</b> , 35, 08220002	5	0
41	A New Framework to Address BIM Interoperability in the AEC Domain from Technical and Process Dimensions. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-17	1.3	1
40	Part-of-speech tagging of building codes empowered by deep learning and transformational rules. <i>Advanced Engineering Informatics</i> , <b>2021</b> , 47, 101235	7.4	4
39	New Automated Activity-on-Node Calculation Grading Method for Construction Management Education Innovation. <i>Journal of Civil Engineering Education</i> , <b>2021</b> , 147, 04021004	1.1	0
38	Logic representation and reasoning for automated BIM analysis to support automation in offsite construction. <i>Automation in Construction</i> , <b>2021</b> , 129, 103756	9.6	2
37	Semantic Rule-Based Construction Procedural Information Extraction to Guide Jobsite Sensing and Monitoring. <i>Journal of Computing in Civil Engineering</i> , <b>2021</b> , 35, 04021026	5	1
36	Design information extraction from construction specifications to support cost estimation. <i>Automation in Construction</i> , <b>2021</b> , 131, 103835	9.6	5
35	Energy Benchmarking in Healthcare Facilities: A Comparative Study. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2021</b> , 147, 04021159	4.2	0
34	Electrical load prediction of healthcare buildings through single and ensemble learning. <i>Energy Reports</i> , <b>2020</b> , 6, 2751-2767	4.6	19
33	Preparation and properties of novel superabsorbent polymer (SAP) composites for cementitious materials based on modified metakaolin. <i>Construction and Building Materials</i> , <b>2020</b> , 258, 119575	6.7	10
32	Generation of Entity-Based Integrated Model View Definition Modules for the Development of New BIM Data Exchange Standards. <i>Journal of Computing in Civil Engineering</i> , <b>2020</b> , 34, 04020011	5	4
31	Semantic N-Gram Feature Analysis and Machine Learning-Based Classification of Drivers of Hazardous Actions at Signal-Controlled Intersections. <i>Journal of Computing in Civil Engineering</i> , <b>2020</b> , 34, 04020015	5	8
30	On Intelligent Fire Drawings Review Based on Building Information Modeling and Knowledge Graph <b>2020</b> ,		2
29	Infrastructure assessment post-disaster: Remotely sensing bridge structural damage by unmanned aerial vehicle in low-light conditions. <i>Journal of Emergency Management</i> , <b>2020</b> , 18, 27-41	0.7	1

28	Evaluation of Seven Part-of-Speech Taggers in Tagging Building Codes: Identifying the Best Performing Tagger and Common Sources of Errors <b>2020</b> ,		1
27	An Automated Grading Method for Activity-on-Node Calculations to Support Construction Management Education <b>2020</b> ,		1
26	Data-Driven Reverse Engineering Algorithm Development Method for Developing Interoperable Quantity Takeoff Algorithms Using IFC-Based BIM. <i>Journal of Computing in Civil Engineering</i> , <b>2020</b> , 34, 04020036	5	6
25	Building Codes Part-of-Speech Tagging Performance Improvement by Error-Driven Transformational Rules. <i>Journal of Computing in Civil Engineering</i> , <b>2020</b> , 34, 04020035	5	7
24	Model Information Checking to Support Interoperable BIM Usage in Structural Analysis <b>2019</b> ,		6
23	Introducing Geometric Signatures of Architecture, Engineering, and Construction Objects and a New BIM Dataset <b>2019</b> ,		2
22	Preparation and Evaluation of Exhaust-Purifying Cement Concrete Employing Titanium Dioxide. <i>Materials</i> , <b>2019</b> , 12,	3.5	13
21	New Automated BIM Object Classification Method to Support BIM Interoperability. <i>Journal of Computing in Civil Engineering</i> , <b>2019</b> , 33, 04019033	5	28
20	Global Building Information Modeling Maturity <b>2019</b> ,		1
19	Automated BIM Object Classification to Support BIM Interoperability <b>2018</b> ,		7
18	BIM Interoperability for Structure Analysis <b>2018</b> ,		4
17	Maintainability Assessment of Light Design Using Game Simulation, Virtual Reality, and Brain Sensing Technologies <b>2018</b> ,		1
16	Towards Systematic Understanding of Geometric Representations in BIM Standard: An Empirical Data-Driven Approach <b>2018</b> ,		5
15	An Ontology to Support the Move towards Sustainable Construction in Saudi Arabia <b>2017</b> ,		1
14	Automated Wood Construction Cost Estimation <b>2017</b> ,		2
13	Building Accessibility Code Compliance Verification Using Game Simulations in Virtual Reality <b>2017</b> ,		2
12	A logic-based representation and tree-based visualization method for building regulatory requirements. <i>Visualization in Engineering</i> , <b>2017</b> , 5,	3	4
11	Integrating semantic NLP and logic reasoning into a unified system for fully-automated code checking. <i>Automation in Construction</i> , <b>2017</b> , 73, 45-57	9.6	72

10	Semantic-Based Logic Representation and Reasoning for Automated Regulatory Compliance Checking. <i>Journal of Computing in Civil Engineering</i> , <b>2017</b> , 31, 04016037	5	16
9	Semantic NLP-Based Information Extraction from Construction Regulatory Documents for Automated Compliance Checking. <i>Journal of Computing in Civil Engineering</i> , <b>2016</b> , 30, 04015014	5	108
8	Extending Building Information Models Semiautomatically Using Semantic Natural Language Processing Techniques. <i>Journal of Computing in Civil Engineering</i> , <b>2016</b> , 30,	5	37
7	An Automated Relationship Classification to Support Semi-Automated IFC Extension <b>2016</b> ,		2
6	Automated Hazardous Action Classification Using Natural Language Processing and Machine-Learning Techniques <b>2016</b> ,		3
5	Automated Information Transformation for Automated Regulatory Compliance Checking in Construction. <i>Journal of Computing in Civil Engineering</i> , <b>2015</b> , 29,	5	55
4	Extending Building Information Models Semi-Automatically Using Semantic Natural Language Processing Techniques <b>2014</b> ,		2
3	Automated Regulatory Information Extraction from Building Codes : Leveraging Syntactic and Semantic Information <b>2012</b> ,		8
2	Named entity recognition for Chinese construction documents based on conditional random field. <i>Frontiers of Engineering Management</i> ,1	2.7	1
1	Case Study of Building Information Modeling Implementation in Infrastructure Projects. <i>Transportation Research Record</i> ,036119812110450	1.7	