

# Seokho Chi

## List of Publications by Year in descending order

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74  
papers

2,082  
citations

218381

26  
h-index

243296

44  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1354  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Object Identification Using Optical Video Cameras on Construction Sites. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 368-380.	6.3	161
2	Analyses of systems theory for construction accident prevention with specific reference to OSHA accident reports. International Journal of Project Management, 2013, 31, 1027-1041.	2.7	108
3	Image-Based Safety Assessment: Automated Spatial Safety Risk Identification of Earthmoving and Surface Mining Activities. Journal of Construction Engineering and Management - ASCE, 2012, 138, 341-351.	2.0	103
4	Relationship between Unsafe Working Conditions and Workersâ€™ Behavior and Impact of Working Conditions on Injury Severity in U.S. Construction Industry. Journal of Construction Engineering and Management - ASCE, 2013, 139, 826-838.	2.0	103
5	Trends of Fall Accidents in the U.S. Construction Industry. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	102
6	Action recognition of earthmoving excavators based on sequential pattern analysis of visual features and operation cycles. Automation in Construction, 2019, 104, 255-264.	4.8	98
7	Interaction analysis for vision-based activity identification of earthmoving excavators and dump trucks. Automation in Construction, 2018, 87, 297-308.	4.8	94
8	Accident Case Retrieval and Analyses: Using Natural Language Processing in the Construction Industry. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	88
9	Xgboost application on bridge management systems for proactive damage estimation. Advanced Engineering Informatics, 2019, 41, 100922.	4.0	77
10	A Methodology for Object Identification and Tracking in Construction Based on Spatial Modeling and Image Matching Techniques. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 199-211.	6.3	67
11	An Exploratory Analysis of Risks in Green Residential Building Construction Projects: The Case of Singapore. Sustainability, 2017, 9, 1116.	1.6	58
12	Multi-camera vision-based productivity monitoring of earthmoving operations. Automation in Construction, 2020, 112, 103121.	4.8	56
13	Quantifying the dynamic effects of smart city development enablers using structural equation modeling. Sustainable Cities and Society, 2020, 53, 101916.	5.1	52
14	Towards database-free vision-based monitoring on construction sites: A deep active learning approach. Automation in Construction, 2020, 120, 103376.	4.8	52
15	Optimal route selection model for fire evacuations based on hazard prediction data. Simulation Modelling Practice and Theory, 2019, 94, 321-333.	2.2	46
16	Automated Construction Specification Review with Named Entity Recognition Using Natural Language Processing. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	45
17	Human activity classification based on sound recognition and residual convolutional neural network. Automation in Construction, 2020, 114, 103177.	4.8	44
18	Investigating residentsâ€™ perceptions of green retrofit program in mature residential estates: The case of Singapore. Habitat International, 2017, 63, 103-112.	2.3	43

#	ARTICLE	IF	CITATIONS
19	Adaptive Detector and Tracker on Construction Sites Using Functional Integration and Online Learning. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	2.5	38
20	Systematic Camera Placement Framework for Operation-Level Visual Monitoring on Construction Jobsites. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	2.0	35
21	A Spatial Disaster Assessment Model of Social Resilience Based on Geographically Weighted Regression. <i>Sustainability</i> , 2017, 9, 2222.	1.6	33
22	Analyzing psychological conditions of field-workers in the construction industry. <i>International Journal of Occupational and Environmental Health</i> , 2017, 23, 261-281.	1.2	32
23	Development of a Safety Inspection Framework on Construction Sites Using Mobile Computing. <i>Journal of Management in Engineering - ASCE</i> , 2017, 33, .	2.6	31
24	Natural language processing-based characterization of top-down communication in smart cities for enhancing citizen alignment. <i>Sustainable Cities and Society</i> , 2021, 66, 102674.	5.1	31
25	Occupant behavior monitoring and emergency event detection in single-person households using deep learning-based sound recognition. <i>Building and Environment</i> , 2020, 181, 107092.	3.0	29
26	Development of a data mining-based analysis framework for multi-attribute construction project information. <i>Advanced Engineering Informatics</i> , 2012, 26, 574-581.	4.0	27
27	ACCIDENT RISK IDENTIFICATION AND ITS IMPACT ANALYSES FOR STRATEGIC CONSTRUCTION SAFETY MANAGEMENT. <i>Journal of Civil Engineering and Management</i> , 2015, 21, 524-538.	1.9	26
28	UAV-RFID Integration for Construction Resource Localization. <i>KSCE Journal of Civil Engineering</i> , 2020, 24, 1683-1695.	0.9	25
29	A few-shot learning approach for database-free vision-based monitoring on construction sites. <i>Automation in Construction</i> , 2021, 124, 103566.	4.8	24
30	Document Management System Using Text Mining for Information Acquisition of International Construction. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 4791-4798.	0.9	22
31	Development of Network-Level Project Screening Methods Supporting the 4-Year Pavement Management Plan in Texas. <i>Journal of Management in Engineering - ASCE</i> , 2013, 29, 482-494.	2.6	21
32	Automated detection of contractual risk clauses from construction specifications using bidirectional encoder representations from transformers (BERT). <i>Automation in Construction</i> , 2022, 142, 104465.	4.8	21
33	Bridge Damage Recognition from Inspection Reports Using NER Based on Recurrent Neural Network with Active Learning. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, .	1.0	20
34	Impact of Work Environment and Occupational Stress on Safety Behavior of Individual Construction Workers. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8304.	1.2	18
35	Automated system for construction specification review using natural language processing. <i>Advanced Engineering Informatics</i> , 2022, 51, 101495.	4.0	16
36	Development of training image database using web crawling for vision-based site monitoring. <i>Automation in Construction</i> , 2022, 135, 104141.	4.8	16

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37	Semantic text-pairing for relevant provision identification in construction specification reviews. <i>Automation in Construction</i> , 2021, 128, 103780.	4.8	14
38	Sustainable Road Management in Texas: Network-Level Flexible Pavement Structural Condition Analysis Using Data-Mining Techniques. <i>Journal of Computing in Civil Engineering</i> , 2014, 28, 156-165.	2.5	11
39	Multimethod Supply Chain Simulation Model for High-Rise Building Construction Projects. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, 04018007.	2.5	11
40	Predicting Construction Cost Index Using the Autoregressive Fractionally Integrated Moving Average Model. <i>Journal of Management in Engineering - ASCE</i> , 2018, 34, .	2.6	11
41	Bridge Clustering for Systematic Recognition of Damage Patterns on Bridge Elements. <i>Journal of Computing in Civil Engineering</i> , 2019, 33, .	2.5	11
42	Quantifying combination effects of project management practices on cost performance. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 603-615.	0.9	10
43	Hybrid kinematicâ€“visual sensing approach for activity recognition of construction equipment. <i>Journal of Building Engineering</i> , 2021, 44, 102709.	1.6	10
44	Synthetic Image Dataset Development for Vision-Based Construction Equipment Detection. <i>Journal of Computing in Civil Engineering</i> , 2022, 36, .	2.5	10
45	Agent-Based Lift System Simulation Model for High-Rise Building Construction Projects. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	2.5	9
46	Automatic Review of Construction Specifications Using Natural Language Processing. , 2019, , .		9
47	Graph neural network-based propagation effects modeling for detecting visual relationships among construction resources. <i>Automation in Construction</i> , 2022, 141, 104443.	4.8	9
48	Selecting Network-Level Project Sections for Sustainable Pavement Management in Texas. <i>Sustainability</i> , 2018, 10, 686.	1.6	8
49	Understanding User Experience and Satisfaction with Urban Infrastructure through Text Mining of Civil Complaint Data. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, .	2.0	7
50	Design of a preliminary error impact analysis model for spatial safety assessment of earthmoving operations. <i>Automation in Construction</i> , 2012, 22, 212-222.	4.8	6
51	Negotiating subcontract conditions in the Australian construction industry. <i>KSCE Journal of Civil Engineering</i> , 2015, 19, 485-497.	0.9	6
52	A Preliminary Study on Disaster Waste Detection and Volume Estimation Based on 3D Spatial Information. , 2017, , .		6
53	A Progress Measurement Framework for Large-Scale Urban Construction Projects. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 2188-2194.	0.9	6
54	Sequential Pattern Learning of Visual Features and Operation Cycles for Vision-Based Action Recognition of Earthmoving Excavators. , 2019, , .		6

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55	Understanding the Influences of Urban-Specific Contexts for Smart City Development Using Structural Equation Modeling. Journal of the Urban Planning and Development Division, ASCE, 2021, 147, .	0.8	6
56	Internal Communication Effectiveness Model for Construction Companies: A Case Study of the Korean Construction Industry. KSCE Journal of Civil Engineering, 2021, 25, 4520-4534.	0.9	6
57	Adoption of Three-Dimensional Printing Technology in Public Housing in Singapore: Drivers, Challenges, and Strategies. Journal of Management in Engineering - ASCE, 2022, 38, .	2.6	6
58	The Relationship between Unbilled Accounts Receivable and Financial Performance of Construction Contractors. Sustainability, 2018, 10, 2679.	1.6	5
59	Damage Prediction on Bridge Decks considering Environmental Effects with the Application of Deep Neural Networks. KSCE Journal of Civil Engineering, 2021, 25, 371-385.	0.9	5
60	Bridge Damage Prediction Using Deep Neural Network. , 2019, , .		4
61	Vision-Based Activity Analysis Framework Considering Interactive Operation of Construction Equipment. , 2017, , .		3
62	Development of an Automated Safety Assessment Framework for Construction Activities. , 2009, , .		3
63	Real-Time Information Support for Strategic Safety Inspection on Construction Sites. , 2013, , .		3
64	A Framework for Developing an Estimation Model of Damages on Bridge Elements Using Big Data Analytics. , 2016, , .		3
65	Camera Placement Optimization for Vision-based Monitoring on Construction Sites. , 2018, , .		3
66	Object Identification Based on 3D Spatial Models of Construction Sites. , 2007, , .		2
67	Sound Event Recognition-Based Classification Model for Automated Emergency Detection in Indoor Environment. , 2019, , 529-535.		2
68	Analysis of Construction Accidents Based on Semantic Search and Natural Language Processing. , 2018, , .		2
69	Assessment of staffing needs for construction inspection. KSCE Journal of Civil Engineering, 2016, 20, 2598-2603.	0.9	1
70	Modeling Object Identification and Tracking Errors on Image-Based Safety Assessment of Earthmoving Operations. , 2010, , .		1
71	Developing a Pattern Model of Damage Types on Bridge Elements Using Big Data Analytics. , 2017, , .		1
72	Reference section identification of construction specifications by a deep structured semantic model. Engineering, Construction and Architectural Management, 2023, 30, 4358-4386.	1.8	1

#	ARTICLE	IF	CITATIONS
73	Efficient Safety Information Retrieval on Construction Sites: A Preliminary Methodology. , 2012, , .		0
74	Productivity Analysis Method of Construction Structural Work using Computer Vision. , 2022, 1, 7-12.		0