

Yong K Cho

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,991
citations

147801

31
h-index

175258

52
g-index

88
all docs

88
docs citations

88
times ranked

2083
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic BIM component extraction from point clouds of existing buildings for sustainability applications. Automation in Construction, 2015, 56, 1-13.	9.8	213
2	Framework of Automated Construction-Safety Monitoring Using Cloud-Enabled BIM and BLE Mobile Tracking Sensors. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	3.8	169
3	SLAM-driven robotic mapping and registration of 3D point clouds. Automation in Construction, 2018, 89, 38-48.	9.8	147
4	Case Study of BIM and Cloud-Enabled Real-Time RFID Indoor Localization for Construction Management Applications. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	3.8	142
5	Integrating work sequences and temporary structures into safety planning: Automated scaffolding-related safety hazard identification and prevention in BIM. Automation in Construction, 2016, 70, 128-142.	9.8	122
6	Visualization, Information Modeling, and Simulation: Grand Challenges in the Construction Industry. Journal of Computing in Civil Engineering, 2016, 30, .	4.7	102
7	Performance Test of Wireless Technologies for Personnel and Equipment Proximity Sensing in Work Zones. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	3.8	101
8	Deep Learning Approach to Point Cloud Scene Understanding for Automated Scan to 3D Reconstruction. Journal of Computing in Civil Engineering, 2019, 33, .	4.7	93
9	A framework for real-time pro-active safety assistance for mobile crane lifting operations. Automation in Construction, 2016, 72, 367-379.	9.8	91
10	Smart scanning and near real-time 3D surface modeling of dynamic construction equipment from a point cloud. Automation in Construction, 2015, 49, 239-249.	9.8	79
11	Error modeling for an untethered ultra-wideband system for construction indoor asset tracking. Automation in Construction, 2010, 19, 43-54.	9.8	78
12	A PDA and wireless web-integrated system for quality inspection and defect management of apartment housing projects. Automation in Construction, 2008, 17, 163-179.	9.8	76
13	Assessment of operator's situation awareness for smart operation of mobile cranes. Automation in Construction, 2018, 85, 65-75.	9.8	75
14	As-Is 3D Thermal Modeling for Existing Building Envelopes Using a Hybrid LIDAR System. Journal of Computing in Civil Engineering, 2013, 27, 645-656.	4.7	71
15	Framework for Work-Space Planning Using Four-Dimensional BIM in Construction Projects. Journal of Construction Engineering and Management - ASCE, 2014, 140, .	3.8	65
16	3D as-is building energy modeling and diagnostics: A review of the state-of-the-art. Advanced Engineering Informatics, 2015, 29, 184-195.	8.0	59
17	Improving dynamic proximity sensing and processing for smart work-zone safety. Automation in Construction, 2017, 84, 111-120.	9.8	55
18	UAV-assisted autonomous mobile robot navigation for as-is 3D data collection and registration in cluttered environments. Automation in Construction, 2019, 106, 102918.	9.8	53

#	ARTICLE	IF	CITATIONS
19	Effective inertial sensor quantity and locations on a body for deep learning-based worker's motion recognition. <i>Automation in Construction</i> , 2020, 113, 103126.	9.8	52
20	Automated Schedule Updates Using As-Built Data and a 4D Building Information Model. <i>Journal of Management in Engineering - ASCE</i> , 2017, 33, .	4.8	49
21	CNN-Based Person Detection Using Infrared Images for Night-Time Intrusion Warning Systems. <i>Sensors</i> , 2020, 20, 34.	3.8	49
22	Performance evaluation of 3D descriptors for object recognition in construction applications. <i>Automation in Construction</i> , 2018, 86, 44-52.	9.8	46
23	A framework for Virtual Interactive Construction Education (VICE). <i>Automation in Construction</i> , 2011, 20, 76-87.	9.8	43
24	Projection-Recognition-Projection Method for Automatic Object Recognition and Registration for Dynamic Heavy Equipment Operations. <i>Journal of Computing in Civil Engineering</i> , 2014, 28, .	4.7	41
25	Principal Axes Descriptor for Automated Construction-Equipment Classification from Point Clouds. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	4.7	40
26	Real-Time 3D Crane Workspace Update Using a Hybrid Visualization Approach. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	4.7	40
27	Effectiveness Analysis from a Cognitive Perspective for a Real-Time Safety Assistance System for Mobile Crane Lifting Operations. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	3.8	39
28	Framework for automated registration of UAV and UGV point clouds using local features in images. <i>Automation in Construction</i> , 2019, 98, 175-182.	9.8	35
29	Automated Point Cloud Registration Using Visual and Planar Features for Construction Environments. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	4.7	34
30	BIM-Driven Automated Decision Support System for Safety Planning of Temporary Structures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, 04018072.	3.8	34
31	Data-Driven Monitoring System for Preventing the Collapse of Scaffolding Structures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, .	3.8	31
32	Learning Opportunities and Career Implications of Experience with BIM/VDC. <i>Practice Periodical on Structural Design and Construction</i> , 2014, 19, 111-121.	1.3	29
33	BIM-Based Decision-Making Framework for Scaffolding Planning. <i>Journal of Management in Engineering - ASCE</i> , 2018, 34, .	4.8	29
34	Performance Evaluation of Automatically Generated BIM from Laser Scanner Data for Sustainability Analyses. <i>Procedia Engineering</i> , 2015, 118, 918-925.	1.2	28
35	An integrated system for bridge management using probabilistic and mechanistic deterioration models: Application to bridge decks. <i>KSCE Journal of Civil Engineering</i> , 2010, 14, 527-537.	1.9	27
36	Multiobjective Construction Schedule Optimization Using Modified Niche Pareto Genetic Algorithm. <i>Journal of Management in Engineering - ASCE</i> , 2016, 32, .	4.8	26

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37	Business Failure Prediction of Construction Contractors Using a LSTM RNN with Accounting, Construction Market, and Macroeconomic Variables. Journal of Management in Engineering - ASCE, 2020, 36, .	4.8	26
38	Construction-specific spatial information reasoning in Building Information Models. Advanced Engineering Informatics, 2015, 29, 1013-1027.	8.0	25
39	Target-Focused Local Workspace Modeling for Construction Automation Applications. Journal of Computing in Civil Engineering, 2012, 26, 661-670.	4.7	23
40	Sensor-Based Safety Performance Assessment of Individual Construction Workers. Sensors, 2018, 18, 3897.	3.8	23
41	Multisensor-driven real-time crane monitoring system for blind lift operations: Lessons learned from a case study. Automation in Construction, 2021, 124, 103552.	9.8	23
42	SLAM-Driven Intelligent Autonomous Mobile Robot Navigation for Construction Applications. Lecture Notes in Computer Science, 2018, , 254-269.	1.3	22
43	Predicting Business Failure of Construction Contractors Using Long Short-Term Memory Recurrent Neural Network. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	3.8	21
44	Robotic sensing and object recognition from thermal-mapped point clouds. International Journal of Intelligent Robotics and Applications, 2017, 1, 243-254.	2.8	20
45	Vision-based load sway monitoring to improve crane safety in blind lifts. Journal of Structural Integrity and Maintenance, 2018, 3, 233-242.	1.5	19
46	Multi-View Incremental Segmentation of 3-D Point Clouds for Mobile Robots. IEEE Robotics and Automation Letters, 2019, 4, 1240-1246.	5.1	18
47	User exemplar-based building element retrieval from raw point clouds using deep point-level features. Automation in Construction, 2020, 114, 103159.	9.8	18
48	Integrating physical and virtual environments to conserve energy in buildings. Energy and Buildings, 2011, 43, 3710-3717.	6.7	17
49	UAV-UGV Cooperative 3D Environmental Mapping. , 2019, , .		17
50	Development and Evaluation of a Probabilistic Local Search Algorithm for Complex Dynamic Indoor Construction Sites. Journal of Computing in Civil Engineering, 2017, 31, 04017015.	4.7	16
51	Point Cloud Information Modeling: Deep Learning-Based Automated Information Modeling Framework for Point Cloud Data. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	3.8	16
52	Structural behavior of FRP sandwich panels for bridge decks. KSCE Journal of Civil Engineering, 2010, 14, 879-888.	1.9	15
53	Motion Planning of Mobile Robots for Autonomous Navigation on Uneven Ground Surfaces. Journal of Computing in Civil Engineering, 2021, 35, .	4.7	15
54	Thermography-Driven Distress Prediction from Hot Mix Asphalt Road Paving Construction. Journal of Construction Engineering and Management - ASCE, 2012, 138, 206-214.	3.8	14

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55	CrackEmbed: Point feature embedding for crack segmentation from disaster site point clouds with anomaly detection. <i>Advanced Engineering Informatics</i> , 2022, 52, 101550.	8.0	14
56	Point Cloud Scene Completion of Obstructed Building Facades with Generative Adversarial Inpainting. <i>Sensors</i> , 2020, 20, 5029.	3.8	13
57	Effectiveness Study of Methods for Removing Temporary Pavement Markings in Roadway Construction Zones. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, 257-266.	3.8	12
58	Application of As-built Data in Building Retrofit Decision Making Process. <i>Procedia Engineering</i> , 2015, 118, 902-908.	1.2	12
59	LRGNet: Learnable Region Growing for Class-Agnostic Point Cloud Segmentation. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 2799-2806.	5.1	11
60	Automatic Recognition of Workers'™ Motions in Highway Construction by Using Motion Sensors and Long Short-Term Memory Networks. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021, 147, 04020184.	3.8	10
61	Business Failure Prediction with LSTM RNN in the Construction Industry. , 2019, , .		9
62	Identifying the Perception Differences of Emerging Construction-Related Technologies between Industry and Academia to Enable High Levels of Collaboration. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021, 147, .	3.8	9
63	Unsupervised Recognition of Volumetric Structural Components from Building Point Clouds. , 2017, , .		8
64	Autonomous Mobile Robot Localization and Mapping for Unknown Construction Environments. , 2018, , .		8
65	Conceptual Design and Feasibility Analyses of a Robotic System for Automated Exterior Wall Painting. <i>International Journal of Advanced Robotic Systems</i> , 2007, 4, 49.	2.1	7
66	Region Proposal Mechanism for Building Element Recognition for Advanced Scan-to-BIM Process. , 2018, , .		6
67	Real-time 3D Mobile Mapping for the Built Environment. , 2016, , .		6
68	Noninvasive Residential Building Envelope R-Value Measurement Method Based on Interfacial Thermal Resistance. <i>Journal of Architectural Engineering</i> , 2016, 22, .	1.6	5
69	Sampled-Point Network for Classification of Deformed Building Element Point Clouds. , 2018, , .		5
70	Object-sensitive potential fields for mobile robot navigation and mapping in indoor environments. , 2018, , .		5
71	Point Cloud Information Modeling (PCIM): An Innovative Framework for As-Is Information Modeling of Construction Sites. , 2020, , .		5
72	Mobile Asset Tracking for Dynamic 3D Crane Workspace Generation in Real Time. , 2017, , .		4

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73	Automatic 3D Thermal Zones Creation for Building Energy Simulation of Existing Residential Buildings. , 2014, , .		3
74	An Automatic Robust Point Cloud Registration on Construction Sites. , 2017, , .		3
75	Live Load Distribution Factors for Skew Stringer Bridges with High-Performance-Steel Girders under Truck Loads. Applied Sciences (Switzerland), 2018, 8, 1717.	2.5	3
76	Understanding Different Views on Emerging Technology Acceptance between Academia and the AEC/FM Industry. , 2019, , .		3
77	Target-Free Automatic Registration of Point Clouds. , 2016, , .		3
78	Automated gbXML-Based Building Model Creation for Thermal Building Simulation. , 2014, , .		2
79	Construction professionalsâ€™ perceived benefits of PMIS: The effects of PMIS quality and computer self-efficacy. KSCE Journal of Civil Engineering, 2016, 20, 564-570.	1.9	2
80	Detection of Damaged Infrastructure on Disaster Sites using Mobile Robots. , 2019, , .		2
81	Evaluation of Machine Learning Algorithms for Workerâ€™s Motion Recognition Using Motion Sensors. , 2019, , .		2
82	Information Technology and the Built Environment. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	3.8	2
83	Dynamic Crane Workspace Update for Collision Avoidance During Blind Lift Operations. Lecture Notes in Civil Engineering, 2021, , 959-970.	0.4	2
84	AI-Driven 3D Point Cloud-Based Highway Infrastructure Monitoring System Using UAV. , 2022, , .		2
85	Exemplar-Based Building Element Retrieval from Point Clouds. , 2019, , .		1
86	Analysis of Flight Parameters on UAV Semantic Segmentation Performance for Highway Infrastructure Monitoring. , 2022, , .		1
87	Future of Smart Construction and Infrastructure. Journal of Computing in Civil Engineering, 2022, 36, .	4.7	0
88	Laser Intensity-Assisted Construction Material Classification in Point Cloud Data Using Deep Learning. , 2022, , .		0