

Kevin K Han

List of Publications by Year in descending order

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47
papers

1,821
citations

567281

15
h-index

677142

22
g-index

48
all docs

48
docs citations

48
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual monitoring of civil infrastructure systems via camera-equipped Unmanned Aerial Vehicles (UAVs): a review of related works. <i>Visualization in Engineering</i> , 2016, 4, .	8.8	342
2	Appearance-based material classification for monitoring of operation-level construction progress using 4D BIM and site photologs. <i>Automation in Construction</i> , 2015, 53, 44-57.	9.8	174
3	Potential of big visual data and building information modeling for construction performance analytics: An exploratory study. <i>Automation in Construction</i> , 2017, 73, 184-198.	9.8	155
4	Trend Analysis on Adoption of Virtual and Augmented Reality in the Architecture, Engineering, and Construction Industry. <i>Data</i> , 2020, 5, 26.	2.3	106
5	An integrated UGV-UAV system for construction site data collection. <i>Automation in Construction</i> , 2020, 112, 103068.	9.8	103
6	Geometry- and Appearance-Based Reasoning of Construction Progress Monitoring. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, .	3.8	85
7	Real-Time Image Localization and Registration with BIM Using Perspective Alignment for Indoor Monitoring of Construction. <i>Journal of Computing in Civil Engineering</i> , 2019, 33, .	4.7	78
8	Automating and scaling personalized safety training using eye-tracking data. <i>Automation in Construction</i> , 2018, 93, 63-77.	9.8	77
9	Are Visual Search Patterns Predictive of Hazard Recognition Performance? Empirical Investigation Using Eye-Tracking Technology. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	3.8	77
10	Vision-based integrated mobile robotic system for real-time applications in construction. <i>Automation in Construction</i> , 2018, 96, 470-482.	9.8	72
11	Development of virtual reality and stereo-panoramic environments for construction safety training. <i>Engineering, Construction and Architectural Management</i> , 2020, 27, 1853-1876.	3.1	72
12	Smart Infrastructure: A Vision for the Role of the Civil Engineering Profession in Smart Cities. <i>Journal of Infrastructure Systems</i> , 2020, 26, .	1.8	72
13	Formalized knowledge of construction sequencing for visual monitoring of work-in-progress via incomplete point clouds and low-LoD 4D BIMs. <i>Advanced Engineering Informatics</i> , 2015, 29, 889-901.	8.0	63
14	Real-time vision-based worker localization & hazard detection for construction. <i>Automation in Construction</i> , 2021, 121, 103448.	9.8	46
15	A Framework for Model-Driven Acquisition and Analytics of Visual Data Using UAVs for Automated Construction Progress Monitoring. , 2015, , .		37
16	Feasibility Study to Identify Brain Activity and Eye-Tracking Features for Assessing Hazard Recognition Using Consumer-Grade Wearables in an Immersive Virtual Environment. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021, 147, .	3.8	35
17	Development of Immersive Personalized Training Environment for Construction Workers. , 2017, , .		25
18	Virtual Manipulation in an Immersive Virtual Environment: Simulation of Virtual Assembly. , 2019, , .		16

#	ARTICLE	IF	CITATIONS
19	Automated Monitoring of Operation-level Construction Progress Using 4D BIM and Daily Site Photologs. , 2014, , .		14
20	Real-Time Image-to-BIM Registration Using Perspective Alignment for Automated Construction Monitoring. , 2018, , .		14
21	Developing hazard recognition skill among the next-generation of construction professionals. Construction Management and Economics, 2020, 38, 1024-1039.	3.0	14
22	Automated Object Manipulation Using Vision-Based Mobile Robotic System for Construction Applications. Journal of Computing in Civil Engineering, 2021, 35, .	4.7	13
23	Crowdsourcing BIM-guided collection of construction material library from site photologs. Visualization in Engineering, 2017, 5, .	8.8	12
24	Vision-Based Obstacle Removal System for Autonomous Ground Vehicles Using a Robotic Arm. , 2019, , .		11
25	Hazard Recognition in an Immersive Virtual Environment: Framework for the Simultaneous Analysis of Visual Search and EEG Patterns. , 2020, , .		11
26	Object manipulation in immersive virtual environments: Hand Motion tracking technology and snap-to-fit function. Automation in Construction, 2021, 124, 103594.	9.8	10
27	Building an Integrated Mobile Robotic System for Real-Time Applications in Construction. , 2018, , .		10
28	Improved Stakeholder Communication and Visualizations: Real-Time Interaction and Cost Estimation within Immersive Virtual Environments. , 2018, , .		9
29	Real-Time Scene Segmentation Using a Light Deep Neural Network Architecture for Autonomous Robot Navigation on Construction Sites. , 2019, , .		8
30	BIM-Assisted Structure-from-Motion for Analyzing and Visualizing Construction Progress Deviations through Daily Site Images and BIM. , 2015, , .		7
31	Scaling Personalized Safety Training Using Automated Feedback Generation. , 2018, , .		6
32	Real-Time Energy Audit of Built Environments: Simultaneous Localization and Thermal Mapping. Journal of Infrastructure Systems, 2018, 24, .	1.8	6
33	LNSNet: Lightweight Navigable Space Segmentation for Autonomous Robots on Construction Sites. Data, 2019, 4, 40.	2.3	6
34	Multi-Sample Image-Based Material Recognition and Formalized Sequencing Knowledge for Operation-Level Construction Progress Monitoring. , 2014, , .		5
35	Real-Time Hazard Proximity Detectionâ€™Localization of Workers Using Visual Data. , 2019, , .		4
36	Toward Automated Virtual Assembly for Prefabricated Construction: Construction Sequencing through Simulated BIM. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
37	Real-Time and Automatic Detection of Welding Joints Using Deep Learning. , 2022, , .		4
38	Enhanced Appearance-Based Material Classification for the Monitoring of Operation-Level Construction Progress through the Removal of Occlusions. , 2016, , .		3
39	Perspective-Based Image-to-BIM Alignment for Automated Visual Data Collection and Construction Performance Monitoring. , 2017, , .		3
40	An Integrated Aerial and Ground Vehicle (UAV-UGV) System for Automated Data Collection for Indoor Construction Sites. , 2020, , .		3
41	Vision-Based Quality Assessment of Prefabricated Components Using Images and Camera Poses. , 2020, , .		3
42	Automated Visual Inspection Planning for Prefabricated Modules with 3D Laser Scanning. , 2022, , .		2
43	A Framework of Human-Motion Based Structural Dynamics Simulation Using Mobile Devices. Sensors, 2019, 19, 3258.	3.8	1
44	Automating Analysis of Construction Workers' Viewing Patterns for Personalized Safety Training and Management. , 2018, , .		1
45	Evaluation of UAS Flight Configuration Factors and Their Impacts on Photogrammetric Survey Accuracy. , 2022, , .		1
46	Versatile Test Reactor Open Digital Engineering Ecosystem. Insight, 2022, 25, 56-60.	0.3	0
47	Development of a Student-Centric Cyber-Physical System (SCPS): An Android App for Interactive Learning of Structural Analysis and Dynamics. , 2022, , .		0