

Kevin K Han

List of Publications by Year in descending order

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47
papers

1,821
citations

567144

15
h-index

677027

22
g-index

48
all docs

48
docs citations

48
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Visual Inspection Planning for Prefabricated Modules with 3D Laser Scanning. , 2022, , .		2
2	Evaluation of UAS Flight Configuration Factors and Their Impacts on Photogrammetric Survey Accuracy. , 2022, , .		1
3	Real-Time and Automatic Detection of Welding Joints Using Deep Learning. , 2022, , .		4
4	Versatile Test Reactor Open Digital Engineering Ecosystem. Insight, 2022, 25, 56-60.	0.1	0
5	Development of a Student-Centric Cyber-Physical System (SCPS): An Android App for Interactive Learning of Structural Analysis and Dynamics. , 2022, , .		0
6	Real-time vision-based worker localization & hazard detection for construction. Automation in Construction, 2021, 121, 103448.	4.8	46
7	Automated Object Manipulation Using Vision-Based Mobile Robotic System for Construction Applications. Journal of Computing in Civil Engineering, 2021, 35, .	2.5	13
8	Object manipulation in immersive virtual environments: Hand Motion tracking technology and snap-to-fit function. Automation in Construction, 2021, 124, 103594.	4.8	10
9	Feasibility Study to Identify Brain Activity and Eye-Tracking Features for Assessing Hazard Recognition Using Consumer-Grade Wearables in an Immersive Virtual Environment. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	35
10	An Integrated Aerial and Ground Vehicle (UAV-UGV) System for Automated Data Collection for Indoor Construction Sites. , 2020, , .		3
11	Development of virtual reality and stereo-panoramic environments for construction safety training. Engineering, Construction and Architectural Management, 2020, 27, 1853-1876.	1.8	72
12	Developing hazard recognition skill among the next-generation of construction professionals. Construction Management and Economics, 2020, 38, 1024-1039.	1.8	14
13	Trend Analysis on Adoption of Virtual and Augmented Reality in the Architecture, Engineering, and Construction Industry. Data, 2020, 5, 26.	1.2	106
14	An integrated UGV-UAV system for construction site data collection. Automation in Construction, 2020, 112, 103068.	4.8	103
15	Smart Infrastructure: A Vision for the Role of the Civil Engineering Profession in Smart Cities. Journal of Infrastructure Systems, 2020, 26, .	1.0	72
16	Hazard Recognition in an Immersive Virtual Environment: Framework for the Simultaneous Analysis of Visual Search and EEG Patterns. , 2020, , .		11
17	Toward Automated Virtual Assembly for Prefabricated Construction: Construction Sequencing through Simulated BIM. , 2020, , .		4
18	Vision-Based Quality Assessment of Prefabricated Components Using Images and Camera Poses. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	A Framework of Human-Motion Based Structural Dynamics Simulation Using Mobile Devices. Sensors, 2019, 19, 3258.	2.1	1
20	Virtual Manipulation in an Immersive Virtual Environment: Simulation of Virtual Assembly. , 2019, , .		16
21	Real-Time Image Localization and Registration with BIM Using Perspective Alignment for Indoor Monitoring of Construction. Journal of Computing in Civil Engineering, 2019, 33, .	2.5	78
22	LNSNet: Lightweight Navigable Space Segmentation for Autonomous Robots on Construction Sites. Data, 2019, 4, 40.	1.2	6
23	Real-Time Scene Segmentation Using a Light Deep Neural Network Architecture for Autonomous Robot Navigation on Construction Sites. , 2019, , .		8
24	Vision-Based Obstacle Removal System for Autonomous Ground Vehicles Using a Robotic Arm. , 2019, , .		11
25	Real-Time Hazard Proximity Detectionâ€™Localization of Workers Using Visual Data. , 2019, , .		4
26	Are Visual Search Patterns Predictive of Hazard Recognition Performance? Empirical Investigation Using Eye-Tracking Technology. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	77
27	Scaling Personalized Safety Training Using Automated Feedback Generation. , 2018, , .		6
28	Improved Stakeholder Communication and Visualizations: Real-Time Interaction and Cost Estimation within Immersive Virtual Environments. , 2018, , .		9
29	Geometry- and Appearance-Based Reasoning of Construction Progress Monitoring. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	85
30	Real-Time Image-to-BIM Registration Using Perspective Alignment for Automated Construction Monitoring. , 2018, , .		14
31	Vision-based integrated mobile robotic system for real-time applications in construction. Automation in Construction, 2018, 96, 470-482.	4.8	72
32	Automating and scaling personalized safety training using eye-tracking data. Automation in Construction, 2018, 93, 63-77.	4.8	77
33	Real-Time Energy Audit of Built Environments: Simultaneous Localization and Thermal Mapping. Journal of Infrastructure Systems, 2018, 24, .	1.0	6
34	Building an Integrated Mobile Robotic System for Real-Time Applications in Construction. , 2018, , .		10
35	Automating Analysis of Construction Workers' Viewing Patterns for Personalized Safety Training and Management. , 2018, , .		1
36	Development of Immersive Personalized Training Environment for Construction Workers. , 2017, , .		25

#	ARTICLE	IF	CITATIONS
37	Crowdsourcing BIM-guided collection of construction material library from site photologs. Visualization in Engineering, 2017, 5, .	8.8	12
38	Perspective-Based Image-to-BIM Alignment for Automated Visual Data Collection and Construction Performance Monitoring. , 2017, , .		3
39	Potential of big visual data and building information modeling for construction performance analytics: An exploratory study. Automation in Construction, 2017, 73, 184-198.	4.8	155
40	Enhanced Appearance-Based Material Classification for the Monitoring of Operation-Level Construction Progress through the Removal of Occlusions. , 2016, , .		3
41	Visual monitoring of civil infrastructure systems via camera-equipped Unmanned Aerial Vehicles (UAVs): a review of related works. Visualization in Engineering, 2016, 4, .	8.8	342
42	A Framework for Model-Driven Acquisition and Analytics of Visual Data Using UAVs for Automated Construction Progress Monitoring. , 2015, , .		37
43	BIM-Assisted Structure-from-Motion for Analyzing and Visualizing Construction Progress Deviations through Daily Site Images and BIM. , 2015, , .		7
44	Appearance-based material classification for monitoring of operation-level construction progress using 4D BIM and site photologs. Automation in Construction, 2015, 53, 44-57.	4.8	174
45	Formalized knowledge of construction sequencing for visual monitoring of work-in-progress via incomplete point clouds and low-LoD 4D BIMs. Advanced Engineering Informatics, 2015, 29, 889-901.	4.0	63
46	Automated Monitoring of Operation-level Construction Progress Using 4D BIM and Daily Site Photologs. , 2014, , .		14
47	Multi-Sample Image-Based Material Recognition and Formalized Sequencing Knowledge for Operation-Level Construction Progress Monitoring. , 2014, , .		5