Brenda Y Mccabe

List of Publications by Year
in descending order

41 papers	1,819 citations	257357 24 h-index	302012 39 g-index
41 all docs	41 docs citations	41 times ranked	1243 citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of individual resilience and safety climate on safety performance and psychological stress of construction workers: A case study of the Ontario construction industry. Journal of Safety Research, 2017, 61, 167-176.	1.7	178
2	Automated computer vision-based detection of components of under-construction indoor partitions. Automation in Construction, 2017, 74, 78-94.	4.8	138
3	Part based model and spatial–temporal reasoning to recognize hydraulic excavators in construction images and videos. Automation in Construction, 2012, 24, 194-202.	4.8	125
4	Evaluating Risk in Construction–Schedule Model (ERIC–S): Construction Schedule Risk Model. Journal of Construction Engineering and Management - ASCE, 2003, 129, 518-527.	2.0	110
5	Server-Customer Interaction Tracker: Computer Vision–Based System to Estimate Dirt-Loading Cycles. Journal of Construction Engineering and Management - ASCE, 2013, 139, 785-794.	2.0	97
6	Automated Visual Recognition of Dump Trucks in Construction Videos. Journal of Computing in Civil Engineering, 2012, 26, 769-781.	2.5	94
7	IFC-centric performance-based evaluation of building evacuations using fire dynamics simulation and agent-based modeling. Automation in Construction, 2019, 101, 1-16.	4.8	77
8	IFC-Based Development of As-Built and As-Is BIMs Using Construction and Facility Inspection Data: Site-to-BIM Data Transfer Automation. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	73
9	Effects of Safety Climate and Safety Behavior on Safety Outcomes between Supervisors and Construction Workers. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	70
10	A resilience safety climate model predicting construction safety performance. Safety Science, 2018, 109, 434-445.	2.6	69
11	Impact of psychological capital on construction worker safety behavior: Communication competence as a mediator. Journal of Safety Research, 2019, 71, 231-241.	1.7	66
12	Automated Schedule and Progress Updating of IFC-Based 4D BIMs. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	65
13	Construction prequalification using data envelopment analysis. Canadian Journal of Civil Engineering, 2005, 32, 183-193.	0.7	53
14	Relationship between Individual Resilience, Interpersonal Conflicts at Work, and Safety Outcomes of Construction Workers. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	41
15	Contractor financial evaluation model (CFEM). Canadian Journal of Civil Engineering, 2003, 30, 487-499.	0.7	39
16	Individual safety and health outcomes in the construction industry. Canadian Journal of Civil Engineering, 2008, 35, 1455-1467.	0.7	39
17	Implications of passive energy efficiency measures on life cycle greenhouse gas emissions of high-rise residential building envelopes. Energy and Buildings, 2021, 249, 111202.	3.1	37
18	Safety Performance in the Construction Industry: Quasi-Longitudinal Study. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	35

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19	EvacuSafe: A real-time model for building evacuation based on Dijkstra's algorithm. Journal of Building Engineering, 2021, 34, 101687.	1.6	35
20	Methodology for Bayesian Belief Network Development to Facilitate Compliance with Water Quality Regulations. Journal of Infrastructure Systems, 2010, 16, 58-65.	1.0	34
21	Utilizing BIM and Carbon Estimating Methods for Meaningful Data Representation. Procedia Engineering, 2016, 145, 1242-1249.	1.2	33
22	Ontology-based knowledge representation for industrial megaprojects analytics using linked data and the semantic web. Advanced Engineering Informatics, 2020, 46, 101164.	4.0	29
23	Taxonomy of uncertainty in environmental life cycle assessment of infrastructure projects. Environmental Research Letters, 2020, 15, 083003.	2.2	29
24	Safety-based efficiency evaluation of construction sites using data envelopment analysis (DEA). Safety Science, 2019, 113, 382-388.	2.6	28
25	Effect of leader-member exchange on construction worker safety behavior: Safety climate and psychological capital as the mediators. Safety Science, 2021, 142, 105401.	2.6	27
26	Relationship between leader–member exchange and construction worker safety behavior: the mediating role of communication competence. International Journal of Occupational Safety and Ergonomics, 2021, 27, 371-383.	1.1	25
27	Automation of Inspection Mission Planning Using 4D BIMs and in Support of Unmanned Aerial Vehicle–Based Data Collection. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	25
28	Framework for Managing Integration Challenges of Last Planner System in IMPs. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	24
29	Coordination Challenges of Production Planning in the Construction of International Mega-Projects in The Middle East. International Journal of Construction Education and Research, 2018, 14, 118-140.	1.1	23
30	Tag-based visual-inertial localization of unmanned aerial vehicles in indoor construction environments using an on-manifold extended Kalman filter. Automation in Construction, 2022, 135, 104112.	4.8	21
31	Risk and benefits associated with international construction–consulting joint ventures in the English-speaking Caribbean. Canadian Journal of Civil Engineering, 2003, 30, 1143-1152.	0.7	20
32	UAV-Enabled Site-to-BIM Automation: Aerial Robotic- and Computer Vision-Based Development of As-Built/As-Is BIMs and Quality Control. , 2018, , .		13
33	EvacuSafe: Building Evacuation Strategy Selection Using Route Risk Index. Journal of Computing in Civil Engineering, 2020, 34, .	2.5	10
34	Generative design to reduce embodied GHG emissions of high-rise buildings. Automation in Construction, 2022, 139, 104274.	4.8	9
35	Performance measurement indices for simulated construction operations. Canadian Journal of Civil Engineering, 2001, 28, 383-393.	0.7	8
36	Time of Sampling Strategies for Asphalt Pavement Quality Assurance. Journal of Construction Engineering and Management - ASCE, 2002, 128, 85-89.	2.0	7

#	Article	IF	Citations
37	Quantifying Remoteness for Risk and Resilience Assessment Using Nighttime Satellite Imagery. Journal of Computing in Civil Engineering, 2020, 34, .	2.5	4
38	UAV Mission Planning Using Swarm Intelligence and 4D BIMs in Support of Vision-Based Construction Progress Monitoring and As-Built Modeling. , 2018, , .		3
39	Psychological decision-making process of construction worker safety behavior: an agent-based simulation approach. International Journal of Occupational Safety and Ergonomics, 2023, 29, 141-153.	1.1	3
40	Concrete bridge deck deterioration model using belief networks. Computers and Concrete, 2005, 2, 439-454.	0.7	2
41	Benchmarking airport reconstruction projects. Canadian Journal of Civil Engineering, 2006, 33, 1571-1584.	0.7	1