

John I Messner

List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/6203303/publications.pdf](https://exaly.com/author-pdf/6203303/publications.pdf)

Version: 2024-02-01

95
papers

1,607
citations

325952

19
h-index

292755

36
g-index

95
all docs

95
docs citations

95
times ranked

1077
citing authors

#	ARTICLE	IF	CITATIONS
1	Where to Focus for Successful Adoption of Building Information Modeling within Organization. Journal of Construction Engineering and Management - ASCE, 2013, 139, .	4.0	169
2	Comparing Procurement Methods for Design-Build Projects. Journal of Construction Engineering and Management - ASCE, 2006, 132, 230-238.	4.0	135
3	Impact of Team Integration and Group Cohesion on Project Delivery Performance. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	4.0	112
4	Fundamental Principles of Site Material Management. Journal of Construction Engineering and Management - ASCE, 2005, 131, 808-815.	4.0	71
5	Augmented Reality Gaming in Sustainable Design Education. Journal of Architectural Engineering, 2016, 22, .	1.6	64
6	High-Performance Green Building Design Process Modeling and Integrated Use of Visualization Tools. Journal of Architectural Engineering, 2010, 16, 37-45.	1.6	60
7	Competitive Positioning and Continuity of Construction Firms in International Markets. Journal of Management in Engineering - ASCE, 2008, 24, 207-216.	4.8	58
8	Entry Mode Taxonomy for International Construction Markets. Journal of Management in Engineering - ASCE, 2009, 25, 3-11.	4.8	55
9	Interface Management for China's Build-Operate-Transfer Projects. Journal of Construction Engineering and Management - ASCE, 2005, 131, 645-655.	4.0	52
10	Evaluating the Impact of Virtual Reality on Design Review Meetings. Journal of Computing in Civil Engineering, 2020, 34, .	4.9	51
11	Product-Oriented Information Delivery Framework for Multistory Modular Building Projects. Journal of Computing in Civil Engineering, 2017, 31, .	4.9	44
12	Evaluating the Impact of Building Information Modeling on Project Performance. Journal of Computing in Civil Engineering, 2019, 33, .	4.9	39
13	Educational Simulation in Construction: Virtual Construction Simulator. Journal of Computing in Civil Engineering, 2011, 25, 421-429.	4.9	36
14	IFC-Based BIM-to-BEM Model Transformation. Journal of Computing in Civil Engineering, 2020, 34, .	4.9	36
15	An investigation of Chinese BOT projects in water supply: a comparative perspective. Construction Management and Economics, 2005, 23, 913-925.	3.2	30
16	Towards a Cyber-Physical Systems Approach to Construction. , 2010, , .		28
17	Implementing Observational Research Methods to Study Team Performance in Construction Management. Journal of Construction Engineering and Management - ASCE, 2010, 136, 76-86.	4.0	28
18	A Recommended Practices System for a Global Virtual Engineering Team. Architectural Engineering and Design Management, 2010, 6, 207-221.	1.6	26

#	ARTICLE	IF	CITATIONS
19	Embedding Leadership Development in Construction Engineering and Management Education. Journal of Professional Issues in Engineering Education and Practice, 2008, 134, 143-151.	1.0	25
20	Virtual Reality to Support the Integrated Design Process: A Retrofit Case Study. , 2014, , .		25
21	Assessing the Relevance of Media Synchronicity Theory to the Use of Communication Media in the AECO Industry. Journal of Architectural Engineering, 2010, 16, 54-62.	1.6	21
22	Permanent versus Mobile Entry Decisions in International Construction Markets: Influence of Home Countryâ€™ and Firm-Related Factors. Journal of Management in Engineering - ASCE, 2011, 27, 2-12.	4.8	21
23	Critical review of approaches to integrating virtual models and the physical construction. International Journal of Construction Management, 2014, 14, 267-282.	3.2	20
24	Leveraging metacognitive prompts in construction educational games for higher educational gains. International Journal of Construction Management, 2022, 22, 19-30.	3.2	19
25	An RTLS-Based Approach to Cyber-Physical Systems Integration in Design and Construction. International Journal of Distributed Sensor Networks, 2012, 8, 596845.	2.4	18
26	Characterizing entry modes for international construction markets. Engineering, Construction and Architectural Management, 2011, 18, 547-567.	3.5	17
27	StructNet: A Neural Network for Structural System Selection. Computer-Aided Civil and Infrastructure Engineering, 1994, 9, 109-118.	10.0	16
28	A process model for usability and maintainability design reviews. Architectural Engineering and Design Management, 2018, 14, 457-469.	1.6	15
29	Development of a Process Model to Support Integrated Design for Energy Efficient Buildings. , 2012, , .		13
30	An Interactive Visualization Environment for Construction Engineering Education. , 2005, , 1.		12
31	A Unified Process Approach to Healthcare Project Delivery: Synergies between Greening Strategies, Lean Principles, and BIM. , 2010, , .		12
32	Framework of the Virtual Construction Simulator 3 for Construction Planning and Management Education. Journal of Computing in Civil Engineering, 2015, 29, .	4.9	12
33	A cyberâ€™physical system (CPS) for planning and monitoring mobile cranes on construction sites. Proceedings of Institution of Civil Engineers: Management, Procurement and Law, 2018, 171, 240-250.	0.8	12
34	A Case Study Implementation of the BIM Planning Procedures for Facility Owners. , 2013, , .		10
35	Integrating BIMserver and OpenStudio for Energy Efficient Building. , 2013, , .		10
36	Implementation and Evaluation of Generative Layout Options Using the Graph Theoretical Approach for a Hospital Layout Problem. Journal of Computing in Civil Engineering, 2020, 34, .	4.9	10

#	ARTICLE	IF	CITATIONS
37	Cost and Schedule Reduction of Nuclear Power Plant Construction Using 4D CAD and Immersive Display Technologies. , 2002, , 136.		9
38	An Educational Simulation in Construction: The Virtual Construction Simulator. , 2009, , .		9
39	INVOLVE: Developing Interactive Workspaces That Impact Communication and Task Performance When Using Virtual Prototypes. Journal of Computing in Civil Engineering, 2014, 28, 191-201.	4.9	9
40	Visualization in 4D Construction Management Software: A Review of Standards and Guidelines. , 2014, , .		9
41	Two-Dimensional Globalizing Index for Engineering and Construction Companies. Journal of Management in Engineering - ASCE, 2015, 31, 04014031.	4.8	9
42	Expanding the Boundaries of Virtual Reality for Building Design and Construction. , 2005, , 1.		8
43	Impact Analysis of Facility Failures on Healthcare Delivery Process: Use Caseâ€œDriven Approach. Journal of Performance of Constructed Facilities, 2016, 30, .	2.1	8
44	Building HVAC control knowledge data schema â€œ Towards a unified representation of control system knowledge. Automation in Construction, 2016, 72, 174-186.	10.1	8
45	When Is a Construction Educational Serious Game Too Serious? Striking a Balance between Engagement and Learning. , 2017, , .		8
46	Retrofitting of Healthcare Facilities: Case Study Approach. Journal of Architectural Engineering, 2017, 23, .	1.6	8
47	Virtual Construction Simulator: A 4D CAD Model Generation Prototype. , 2007, , 862.		7
48	Integrated Framework for Patient Safety and Energy Efficiency in Healthcare Facilities Retrofit Projects. Herd, 2016, 9, 68-85.	1.8	7
49	Evaluating the Use of Immersive Display Media for Construction Planning. Lecture Notes in Computer Science, 2006, , 484-491.	0.2	7
50	Problem-solving processes in an educational construction simulation game. Advanced Engineering Informatics, 2022, 52, 101574.	8.3	7
51	Assessing Traits for Success in Individual and Team Performance in an Engineering Course. , 2009, , .		6
52	The Development of the Virtual Construction Simulator 3: An Interactive Simulation Environment for Construction Management Education. , 2011, , .		6
53	An Integrative Process for Advanced Energy Retrofit Projects. , 2014, , .		6
54	Engaging with BIM: Interactive Workspaces in Facility Design and Construction. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
55	An Architecture for Knowledge Management in the AEC Industry. , 2003, , .		5
56	Using Lean Theory to Identify Waste Associated with Information Exchanges on a Building Project. , 2010, , .		5
57	Facilities Management Interaction with Healthcare Delivery Process. , 2012, , .		5
58	Measuring the Value of "All Play and No Work": Can the Rigorous Assessment of Simulation Games Drive Innovative Teaching in Construction?. , 2012, , .		5
59	A Case Study in Data Visualization for Linked Building Information Model and Building Management System Data. , 2017, , .		5
60	Lessons Learned from Developing Immersive Virtual Mock-Ups to Support Energy-Efficient Retrofit Decision Making. , 2013, , .		4
61	Enhancement of Learning Objectives in Construction Engineering Education: A Step toward Simulation Assessment. , 2014, , .		4
62	Challenges and Benefits of Open-Ended Sustainable Design in First-Year Engineering. Journal of Professional Issues in Engineering Education and Practice, 2014, 140, 04013017.	1.0	4
63	Use of Analytical Tools to Mitigate Mobile Crane-Related Failures. , 2018, , .		4
64	Interdisciplinary Graduate Design Programs: Results and Recommendations From a NSF Workshop. , 2009, , .		4
65	Computer Vision-Based Methods Applied to Construction Processes: A Literature Review. , 2020, , .		4
66	No-Damages-for-Delay Clause: Evaluating Contract Delay Risk. Journal of Professional Issues in Engineering Education and Practice, 2003, 129, 257-262.	1.0	3
67	Emotional intelligence provides indicators for team performance in an engineering course. Engineering Project Organization Journal, 2013, 3, 2-12.	0.7	3
68	Towards Automated Constructability Checking: A Case Study of Aligning Design Information with Formwork Decisions. , 2015, , .		3
69	Defining a Taxonomy for Virtual 3D City Model Use Cases with a Focus on Facility Asset Managementâ€”A Virtual Campus Case Study. , 2017, , .		3
70	FRAMEWORK FOR A HYBRID SIMULATION APPROACH FOR AN INTEGRATED DECISION SUPPORT SYSTEM IN HEALTHCARE FACILITIES. , 2018, , .		3
71	A Framework for CPS-Based Real-Time Mobile Crane Operations. , 2019, , 653-660.		3
72	An information model for project evaluation. Engineering, Construction and Architectural Management, 2001, 8, 393-402.	3.5	2

#	ARTICLE	IF	CITATIONS
73	Taxonomy for International Construction Market Entry Mode Selection. , 2005, , 1.		2
74	The Need for Change and Dependency Management in Energy Efficient Retrofit Projects. , 2013, , .		2
75	Integration of Change and Knowledge Management Processes in Energy-Efficient Retrofit Projects. , 2013, , .		2
76	Assessing the Impact of Using Photographic Images to Influence Building Retrofit Design Education. , 2013, , .		2
77	CPSâ€‘Based System for Enhanced Mobile Crane Safety. , 2020, , 193-213.		2
78	Identification of the Barriers to Data-Centric Approach in the Construction Industry. , 2022, , .		2
79	Lean Adoption for Trade Contractors: Benefits, Barriers, and Path Forward. , 2022, , .		2
80	Design of a Construction Simulation Educational Game Through a Cognitive Lens. ASEE annual conference & exposition, 2015, , 26.464.1.	0.0	1
81	A Construction Simulation Model for Production Planning at the Pentagon Renovation Project. , 2002, , 145.		1
82	Planning Construction Trade Flow: A Visual Process. , 2005, , 1.		1
83	Two-Dimensional Globalizing Index and Globalizing Self-Assessment Tool for Engineering and Construction Companies. , 2012, , .		1
84	Exploring the Role of the Team Environment in Building Project Performance. , 2014, , .		1
85	Improving Site Utilization Planning through the Use of Interactive Workspaces. , 2009, , .		0
86	Closure to â€œEducational Simulation in Construction: Virtual Construction Simulatorâ€‘by Dragana Nikolic, Shrimant Jaruhar, and John I. Messner. Journal of Computing in Civil Engineering, 2012, 26, 805-806.	4.9	0
87	Cross-Case Energy Simulation Modeling Analysis in Healthcare Facilities Retrofit. , 2014, , .		0
88	Developing a Taxonomy of Construction Model Uses. , 2016, , .		0
89	Evaluating Generated Layouts in a Healthcare Departmental Adjacency Optimization Problem. , 2019, , .		0
90	PREVALENCE AND VALUE OF BUILDING INFORMATION MODELING USES IN CONSTRUCTION. Proceedings of International Structural Engineering and Construction, 2017, 4, .	0.1	0

#	ARTICLE	IF	CITATIONS
91	Experiencing Digital Design. , 0, , 238-256.		0
92	A Cyber-Physical Systems Approach for Improved Mobile Crane Safety: Site Implementation. , 2020, , .		0
93	The Pedagogical Value of Virtual Reality Training for Electrical Workers on Energy Storage and Microgrid Systems. , 2020, , .		0
94	Evaluating Facility Asset Information Needs in a Common Data Environment to Support Maintenance Workers. , 2022, , .		0
95	Structuring Visual Data in a Common Data Environment to Support Facilitiesâ€™ Operations and Maintenance. , 2022, , .		0