Carlos H Caldas

List of Publications by Year
in descending order

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Version: 2024-02-01

50 papers	2,660 citations	257450 24 h-index	243625 44 g-index
50 all docs	50 docs citations	50 times ranked	1308 citing authors

#	Article	IF	Citations
1	Measuring the Impact of Rework on Construction Cost Performance. Journal of Construction Engineering and Management - ASCE, 2009, 135, 187-198.	3.8	239
2	Automated Object Identification Using Optical Video Cameras on Construction Sites. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 368-380.	9.8	161
3	Tracking the Location of Materials on Construction Job Sites. Journal of Construction Engineering and Management - ASCE, 2006, 132, 911-918.	3.8	158
4	Real-Time Three-Dimensional Occupancy Grid Modeling for the Detection and Tracking of Construction Resources. Journal of Construction Engineering and Management - ASCE, 2007, 133, 880-888.	3.8	156
5	Computer Vision-Based Video Interpretation Model for Automated Productivity Analysis of Construction Operations. Journal of Computing in Civil Engineering, 2010, 24, 252-263.	4.7	149
6	Automating hierarchical document classification for construction management information systems. Automation in Construction, 2003, 12, 395-406.	9.8	147
7	Learning and classifying actions of construction workers and equipment using Bag-of-Video-Feature-Words and Bayesian network models. Advanced Engineering Informatics, 2011, 25, 771-782.	8.0	126
8	Automated Classification of Construction Project Documents. Journal of Computing in Civil Engineering, 2002, 16, 234-243.	4.7	122
9	An object recognition, tracking, and contextual reasoning-based video interpretation method for rapid productivity analysis of construction operations. Automation in Construction, 2011, 20, 1211-1226.	9.8	122
10	Methodology for Automating the Identification and Localization of Construction Components on Industrial Projects. Journal of Computing in Civil Engineering, 2009, 23, 3-13.	4.7	112
11	Assessing the impact of materials tracking technologies on construction craft productivity. Automation in Construction, 2009, 18, 903-911.	9.8	110
12	Image-Based Safety Assessment: Automated Spatial Safety Risk Identification of Earthmoving and Surface Mining Activities. Journal of Construction Engineering and Management - ASCE, 2012, 138, 341-351.	3.8	103
13	A proximity-based method for locating RFID tagged objects. Advanced Engineering Informatics, 2007, 21, 367-376.	8.0	95
14	Benchmarking Initiatives in the Construction Industry: Lessons Learned and Improvement Opportunities. Journal of Management in Engineering - ASCE, 2006, 22, 158-167.	4.8	90
15	Activity Analysis for Direct-Work Rate Improvement in Construction. Journal of Construction Engineering and Management - ASCE, 2011, 137, 1117-1124.	3.8	81
16	Using Global Positioning System to Improve Materials-Locating Processes on Industrial Projects. Journal of Construction Engineering and Management - ASCE, 2006, 132, 741-749.	3.8	78
17	Methodology for the Integration of Project Documents in Model-Based Information Systems. Journal of Computing in Civil Engineering, 2005, 19, 25-33.	4.7	68
18	A Methodology for Object Identification and Tracking in Construction Based on Spatial Modeling and Image Matching Techniques. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 199-211.	9.8	67

#	Article	IF	Citations
19	Relationship between Automation and Integration of Construction Information Systems and Labor Productivity. Journal of Construction Engineering and Management - ASCE, 2009, 135, 746-753.	3.8	56
20	Data-Fusion Approaches and Applications for Construction Engineering. Journal of Construction Engineering and Management - ASCE, 2011, 137, 863-869.	3.8	38
21	Construction Small-Projects Rework Reduction for Capital Facilities. Journal of Construction Engineering and Management - ASCE, 2012, 138, 1377-1385.	3.8	38
22	Materials Management Practices in the Construction Industry. Practice Periodical on Structural Design and Construction, 2015, 20, 04014039.	1.3	37
23	Method to Assess the Level of Implementation of Productivity Practices on Industrial Projects. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	3.8	29
24	The impact of management practices on mechanical construction productivity. Construction Management and Economics, 2011, 29, 305-316.	3.0	28
25	Effectiveness of craft time utilization in construction projects. Construction Management and Economics, 2011, 29, 737-751.	3.0	23
26	Development of a benchmarking framework for pharmaceutical capital projects. Construction Management and Economics, 2008, 26, 177-195.	3.0	22
27	Identification of Effective Management Practices and Technologies for Lessons Learned Programs in the Construction Industry. Journal of Construction Engineering and Management - ASCE, 2009, 135, 531-539.	3.8	22
28	Validation Methodologies and Their Impact in Construction Productivity Research. Journal of Construction Engineering and Management - ASCE, 2014, 140, 04014046.	3.8	21
29	Statistical Analysis of the Effectiveness of Management Programs in Improving Construction Labor Productivity on Large Industrial Projects. Journal of Management in Engineering - ASCE, 2016, 32, .	4.8	20
30	Performance Dashboard for a Pharmaceutical Project Benchmarking Program. Journal of Construction Engineering and Management - ASCE, 2012, 138, 864-876.	3.8	18
31	Framework for Real-Time Three-Dimensional Modeling of Infrastructure. Transportation Research Record, 2005, 1913, 177-186.	1.9	13
32	Analysing decision variables that influence preliminary feasibility studies using data mining techniques. Construction Management and Economics, 2009, 27, 73-87.	3.0	11
33	Learning and Classifying Motions of Construction Workers and Equipment Using Bag of Video Feature Words and Bayesian Learning Methods. , 2011, , .		11
34	Quantifying combination effects of project management practices on cost performance. KSCE Journal of Civil Engineering, 2017, 21, 603-615.	1.9	10
35	Improving labour productivity in process construction maintenance and shutdown/turnaround projects. International Journal of Construction Management, 2020, 20, 822-836.	3.2	8
36	Development of metrics and an external benchmarking program for healthcare facilities. International Journal of Construction Management, 2021, 21, 615-630.	3.2	8

#	Article	IF	Citations
37	GPS Technology for Locating Fabricated Pipes on Industrial Projects. , 2005, , 1.		7
38	A decision-making method for choosing concrete forming systems. International Journal of Construction Management, 2018, 18, 53-64.	3.2	7
39	Integration of Construction Documents in IFC Project Models. , 2003, , 1.		6
40	Experiments in Real-Time Spatial Data Acquisition for Obstacle Detection. , 2005, , 1.		6
41	Development of a Method to Retain Experiential Knowledge in Capital Projects Organizations. Journal of Management in Engineering - ASCE, 2015, 31, .	4.8	6
42	Field Experiments of an Automated Materials Identification and Localization Model. , 2007, , 689.		5
43	Negotiationâ€based decision support model for utility relocations in transportation infrastructure projects. Construction Management and Economics, 2008, 26, 1079-1090.	3.0	5
44	Impact of steel quick connection system on steel erection labor productivity: case studies and simulation based analyses. Canadian Journal of Civil Engineering, 2014, 41, 1036-1045.	1.3	5
45	Framework for network-level pavement condition assessment using remote sensing data mining. Journal of Applied Remote Sensing, 2020, 14, 1.	1.3	5
46	Application of customized industry-specific metrics to assessment of capital projects performances. KSCE Journal of Civil Engineering, 2012, 16, 19-27.	1.9	3
47	Assessment of underreporting factors on construction safety incidents in US construction projects. International Journal of Construction Management, 2019, , 1-18.	3.2	3
48	Utilization of workface planning for the execution of maintenance activities, shutdowns and turnarounds in petrochemical facilities â€“ a case study. International Journal of Construction Management, 2019, , 1-15.	3.2	2
49	Assessing the Implementation of Best Productivity Practices in Maintenance Activities, Shutdowns, and Turnarounds of Petrochemical Plants. Sustainability, 2019, 11, 1239.	3.2	2
50	Blockchain-Based Methodology for Collaborative Risk Assessment. , 2022, , .		1