

Borja GarcÃ-a de Soto

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,339
citations

430874

18
h-index

377865

34
g-index

63
all docs

63
docs citations

63
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	Implications of Construction 4.0 to the workforce and organizational structures. <i>International Journal of Construction Management</i> , 2022, 22, 205-217.	3.2	74
2	Transshipment approach to coordinate materials for a contractor's project portfolio. <i>International Journal of Construction Management</i> , 2022, 22, 3065-3076.	3.2	6
3	Using Bayesian networks to estimate bridge characteristics in early road designs. <i>Infrastructure Asset Management</i> , 2022, 9, 40-56.	1.6	4
4	A systemic framework for addressing cybersecurity in construction. <i>Automation in Construction</i> , 2022, 133, 103988.	9.8	27
5	Revamping construction supply chain processes with circular economy strategies: A systematic literature review. <i>Journal of Cleaner Production</i> , 2022, 335, 130240.	9.3	37
6	Developing a conceptual framework for the application of digital twin technologies to revamp building operation and maintenance processes. <i>Journal of Building Engineering</i> , 2022, 49, 104028.	3.4	42
7	Determination of Optimal Rolling Planning Period for the Management of BIM-Based Construction Supply Chain Processes. , 2022, , .		0
8	Implementation of a Robotic System for Overhead Drilling Operations: A Case Study of the Jaibot in the UAE. , 2022, 1, .		3
9	Towards the Integration of Image-Based Appearance Information into BIM. , 2022, , .		1
10	Construction cybersecurity and critical infrastructure protection: new horizons for Construction 4.0. <i>Journal of Information Technology in Construction</i> , 2022, 27, 571-594.	2.1	3
11	Understanding the Significance of Cybersecurity in the Construction Industry: Survey Findings. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, .	3.8	7
12	Assessment of the cybersecurity vulnerability of construction networks. <i>Engineering, Construction and Architectural Management</i> , 2021, 28, 3078-3105.	3.1	8
13	Use of Scrum in the rehabilitation of a commercial building in Peru. <i>Construction Innovation</i> , 2021, 21, 145-163.	2.7	9
14	Supplier-contractor coordination approach to managing demand fluctuations of ready-mix concrete. <i>Automation in Construction</i> , 2021, 121, 103423.	9.8	20
15	On-site factories to support lean principles and industrialized construction. <i>Organization, Technology and Management in Construction</i> , 2021, 13, 2353-2366.	1.1	10
16	Cyber security threat modeling in the AEC industry: An example for the commissioning of the built environment. <i>Sustainable Cities and Society</i> , 2021, 66, 102682.	10.4	19
17	Estdama and the Pearl Rating System: A Comprehensive Review and Alignment with LCA. <i>Sustainability</i> , 2021, 13, 5041.	3.2	7
18	Cybersecurity in Construction: Where Do We Stand and How Do We Get Better Prepared. <i>Frontiers in Built Environment</i> , 2021, 7, .	2.3	6

#	ARTICLE	IF	CITATIONS
19	Lifting Sequence Optimization of Luffing Tower Cranes Considering Motion Paths with Dynamic Programming. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	3.8	2
20	Connecting teams in modular construction projects using game engine technology. Automation in Construction, 2021, 132, 103887.	9.8	30
21	Operational Technology on Construction Sites: A Review from the Cybersecurity Perspective. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	3.8	22
22	Improving the planning and design phases of construction projects by using a Case-Based Digital Building System. International Journal of Construction Management, 2020, 20, 900-911.	3.2	3
23	BIM-based estimation of vertical transportation demands during the construction of high-rise buildings. Automation in Construction, 2020, 110, 102985.	9.8	10
24	Combining recorded failures and expert opinion in the development of ANN pipe failure prediction models. Sustainable and Resilient Infrastructure, 2020, , 1-23.	2.8	5
25	Automatic Space Analysis Using Laser Scanning and a 3D Grid: Applications to Industrial Plant Facilities. Sustainability, 2020, 12, 9087.	3.2	4
26	Spatiotemporal Modeling of Lifting Task Scheduling for Tower Cranes With a Tabu Search and 4-D Simulation. Frontiers in Built Environment, 2020, 6, .	2.3	6
27	Generalized task allocation and route planning for robots with multiple depots in indoor building environments. Automation in Construction, 2020, 119, 103359.	9.8	15
28	Blockchain applied to the construction supply chain: A case study with threat model. Frontiers of Engineering Management, 2020, 7, 564-577.	6.1	42
29	Last Planner System and Scrum: Comparative analysis and suggestions for adjustments. Frontiers of Engineering Management, 2020, 7, 359-372.	6.1	9
30	Spatio-temporal planning for tower cranes in construction projects with simulated annealing. Automation in Construction, 2020, 111, 103060.	9.8	34
31	Future of robotics and automation in construction. , 2020, , 289-306.		16
32	Cyber threats and actors confronting the Construction 4.0. , 2020, , 441-459.		7
33	Threat Modeling in Construction: An Example of a 3D Concrete Printing System. , 2020, , .		5
34	Robots in indoor and outdoor environments. , 2020, , 307-325.		3
35	Preliminary Productivity Analysis of Conventional, Precast and 3D Printing Production Techniques for Concrete Columns with Simple Geometry. RILEM Bookseries, 2020, , 1031-1050.	0.4	1
36	Preliminary Study of the Implications of 3D Printing on the Construction Supply Chain. RILEM Bookseries, 2020, , 1051-1063.	0.4	0

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37	Editorial: Spatiotemporal Modelling for Construction Project Management. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	1
38	Task Allocation and Route Planning for Robotic Service Networks with Multiple Depots in Indoor Environments. , 2019, , .		1
39	Towards a Review of Building Energy Forecast Models. , 2019, , .		0
40	BIM-based Last Planner System tool for improving construction project management. <i>Automation in Construction</i> , 2019, 104, 246-254.	9.8	105
41	Designing a Reliable Fiducial Marker Network for Autonomous Indoor Robot Navigation. , 2019, , .		7
42	Cyber security challenges and vulnerability assessment in the construction industry. , 2019, , .		32
43	Automatic Generation of the Vertical Transportation Demands During the Construction of High-Rise Buildings Using BIM. , 2019, , .		2
44	Predicting road traffic accidents using artificial neural network models. <i>Infrastructure Asset Management</i> , 2018, 5, 132-144.	1.6	42
45	Productivity of digital fabrication in construction: Cost and time analysis of a robotically built wall. <i>Automation in Construction</i> , 2018, 92, 297-311.	9.8	263
46	Where does the money go? Economic flow analysis of construction projects. <i>Building Research and Information</i> , 2018, 46, 348-366.	3.9	9
47	Construction automation: Research areas, industry concerns and suggestions for advancement. <i>Automation in Construction</i> , 2018, 94, 22-38.	9.8	137
48	Rethinking the roles in the AEC industry to accommodate digital fabrication. , 2018, , .		4
49	Determination of a classification tool for IFC data models based on a predefined classification system. , 2018, , .		0
50	Automatic Generation of the Consumption for Temporary Construction Structures Using BIM: Applications to Formwork. , 2018, , .		0
51	A hybrid methodology to estimate construction material quantities at an early project phase. <i>International Journal of Construction Management</i> , 2017, 17, 165-196.	3.2	12
52	BIM-based Applications of Metaheuristic Algorithms to Support the Decision-making Process: Uses in the Planning of Construction Site Layout. <i>Procedia Engineering</i> , 2017, 196, 558-564.	1.2	20
53	Using a Tabu-search Algorithm and 4D Models to Improve Construction Project Schedules. <i>Procedia Engineering</i> , 2017, 196, 698-705.	1.2	21
54	Knowledge Areas Delivered in Project Management Programs: Exploratory Study. <i>Journal of Management in Engineering - ASCE</i> , 2017, 33, .	4.8	9

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55	Evaluating the operation and routine maintenance of municipal roads in Switzerland. <i>Infrastructure Asset Management</i> , 2017, 4, 96-108.	1.6	11
56	Implementation of Scrum in the Construction Industry. <i>Procedia Engineering</i> , 2016, 164, 269-276.	1.2	49
57	Preliminary Resource-based Estimates Combining Artificial Intelligence Approaches and Traditional Techniques. <i>Procedia Engineering</i> , 2016, 164, 261-268.	1.2	13
58	A Bayesian network model to predict accidents on Swiss highways. <i>Infrastructure Asset Management</i> , 2015, 2, 145-158.	1.6	43
59	Investigation of the Case-based Reasoning Retrieval Process to Estimate Resources in Construction Projects. <i>Procedia Engineering</i> , 2015, 123, 169-181.	1.2	10
60	A Process for the Development and Evaluation of Preliminary Construction Material Quantity Estimation Models Using Backward Elimination Regression and Neural Networks. <i>Journal of Cost Analysis and Parametrics</i> , 2014, 7, 180-218.	0.3	15
61	Analysis of Adverse Weather for Excusable Delays. <i>Journal of Construction Engineering and Management - ASCE</i> , 2010, 136, 1258-1267.	3.8	26