Samad M E Sepasgozar

List of Publications by Year
in descending order

133 papers	**3,532** citations	147786 **31** h-index	168376 **53** g-index
136 all docs	**136** docs citations	**136** times ranked	**1853** citing authors

#	Article	IF	Citations
1	Implementing citizen centric technology in developing smart cities: A model for predicting the acceptance of urban technologies. Technological Forecasting and Social Change, 2019, 142, 105-116.	11.6	165
2	A scientometric analysis and critical review of construction related ontology research. Automation in Construction, 2019, 101, 17-31.	9.8	163
3	A Systematic Review of Digital Technology Adoption in Off-Site Construction: Current Status and Future Direction towards Industry 4.0. Buildings, 2020, 10, 204.	3.1	158
4	Differentiating Digital Twin from Digital Shadow: Elucidating a Paradigm Shift to Expedite a Smart, Sustainable Built Environment. Buildings, 2021, 11, 151.	3.1	144
5	Risk management in sustainable smart cities governance: A TOE framework. Technological Forecasting and Social Change, 2021, 167, 120743.	11.6	143
6	Digital Twin and Web-Based Virtual Gaming Technologies for Online Education: A Case of Construction Management and Engineering. Applied Sciences (Switzerland), 2020, 10, 4678.	2.5	114
7	A Systematic Review of Smart Real Estate Technology: Drivers of, and Barriers to, the Use of Digital Disruptive Technologies and Online Platforms. Sustainability, 2018, 10, 3142.	3.2	107
8	BIM compatibility and its differentiation with interoperability challenges as an innovation factor. Automation in Construction, 2020, 112, 103086.	9.8	103
9	BIM adoption model for small and medium construction organisations in Australia. Engineering, Construction and Architectural Management, 2019, 26, 154-183.	3.1	91
10	Digital Twin and CyberGIS for Improving Connectivity and Measuring the Impact of Infrastructure Construction Planning in Smart Cities. ISPRS International Journal of Geo-Information, 2020, 9, 240.	2.9	91
11	Additive Manufacturing Applications for Industry 4.0: A Systematic Critical Review. Buildings, 2020, 10, 231.	3.1	81
12	Big Data and Its Applications in Smart Real Estate and the Disaster Management Life Cycle: A Systematic Analysis. Big Data and Cognitive Computing, 2020, 4, 4.	4.7	81
13	Intelligent contract adoption in the construction industry: Concept development. Automation in Construction, 2021, 122, 103452.	9.8	81
14	A Systematic Content Review of Artificial Intelligence and the Internet of Things Applications in Smart Home. Applied Sciences (Switzerland), 2020, 10, 3074.	2.5	80
15	Barriers to the digitalisation and innovation of Australian Smart Real Estate: A managerial perspective on the technology non-adoption. Environmental Technology and Innovation, 2021, 22, 101527.	6.1	66
16	Lean Practices Using Building Information Modeling (BIM) and Digital Twinning for Sustainable Construction. Sustainability, 2021, 13, 161.	3.2	65
17	Conceptualising information and equipment technology adoption in construction. Engineering, Construction and Architectural Management, 2016, 23, 158-176.	3.1	64
18	Construction Technology Adoption Cube: An Investigation on Process, Factors, Barriers, Drivers and Decision Makers Using NVivo and AHP Analysis. Buildings, 2018, 8, 74.	3.1	62

#	Article	IF	Citations
19	Comparative analysis of machine learning and point-based algorithms for detecting 3D changes in buildings over time using bi-temporal lidar data. Automation in Construction, 2019, 105, 102841.	9.8	61
20	Smart Digital Marketing Capabilities for Sustainable Property Development: A Case of Malaysia. Sustainability, 2020, 12, 5402.	3.2	58
21	Integration of BIM and Immersive Technologies for AEC: A Scientometric-SWOT Analysis and Critical Content Review. Buildings, 2021, 11, 126.	3.1	58
22	Adoption of Blockchain Technology through Digital Twins in the Construction Industry 4.0: A PESTELS Approach. Buildings, 2021, 11, 670.	3.1	58
23	Delay Causes and Emerging Digital Tools: A Novel Model of Delay Analysis, Including Integrated Project Delivery and PMBOK. Buildings, 2019, 9, 191.	3.1	50
24	Modeling the Implementation Process for New Construction Technologies: Thematic Analysis Based on Australian and U.S. Practices. Journal of Management in Engineering - ASCE, 2018, 34, 05018005.	4.8	48
25	Automated PPE-Tool pair check system for construction safety using smart IoT. Journal of Building Engineering, 2020, 32, 101721.	3.4	47
26	Developing a theoretical framework for intelligent contract acceptance. Construction Innovation, 2020, 20, 421-445.	2.7	47
27	Itâ€™s all about perceptions: A DEMATEL approach to exploring user perceptions of real estate online platforms. Ain Shams Engineering Journal, 2021, 12, 4297-4317.	6.1	43
28	Criteria development for sustainable construction manufacturing in Construction Industry 4.0. Construction Innovation, 2020, 20, 379-400.	2.7	42
29	A Scanner Technology Acceptance Model for Construction Projects. Procedia Engineering, 2017, 180, 1237-1246.	1.2	38
30	Key Factors Influencing Purchase or Rent Decisions in Smart Real Estate Investments: A System Dynamics Approach Using Online Forum Thread Data. Sustainability, 2020, 12, 4382.	3.2	38
31	Spatial compactness metrics and Constrained Voxel Automata development for analyzing 3D densification and applying to point clouds: A synthetic review. Automation in Construction, 2018, 96, 236-249.	9.8	37
32	Metrics development and modelling the mixed reality and digital twin adoption in the context of Industry 4.0. Engineering, Construction and Architectural Management, 2021, 28, 1355-1376.	3.1	37
33	Application of differential transformation method (DTM) for heat and mass transfer in a porous channel. Propulsion and Power Research, 2017, 6, 41-48.	4.3	33
34	Spatial Analysis Using Temporal Point Clouds in Advanced GIS: Methods for Ground Elevation Extraction in Slant Areas and Building Classifications. ISPRS International Journal of Geo-Information, 2019, 8, 120.	2.9	33
35	Data mining for recognition of spatial distribution patterns of building heights using airborne lidar data. Advanced Engineering Informatics, 2020, 43, 101033.	8.0	32
36	Project Data Categorization, Adoption Factors, and Non-Functional Requirements for Blockchain Based Digital Twins in the Construction Industry 4.0. Buildings, 2021, 11, 626.	3.1	32

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37	Evaluation of Terrestrial and Mobile Scanner Technologies for Part-Built Information Modeling. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	3.8	31
38	The Performance Gap in Energy-Efficient Office Buildings: How the Occupants Can Help?. Energies, 2020, 13, 1480.	3.1	30
39	Modelling users' perception of the online real estate platforms in a digitally disruptive environment: An integrated KANO-SISQual approach. Telematics and Informatics, 2021, 63, 101660.	5.8	29
40	Three-Dimensional Printing Using Recycled High-Density Polyethylene: Technological Challenges and Future Directions for Construction. Buildings, 2018, 8, 165.	3.1	28
41	An investigation of modern building equipment technology adoption in the Australian construction industry. Engineering, Construction and Architectural Management, 2018, 25, 1075-1091.	3.1	28
42	Numerical Analysis of the Creep and Shrinkage Experienced in the Sydney Opera House and the Rise of Digital Twin as Future Monitoring Technology. Buildings, 2019, 9, 137.	3.1	28
43	Green Performance Evaluation System for Energy-Efficiency-Based Planning for Construction Site Layout. Energies, 2019, 12, 4620.	3.1	28
44	Methods for monitoring construction off-road vehicle emissions: a critical review for identifying deficiencies and directions. Environmental Science and Pollution Research, 2019, 26, 15779-15794.	5.3	26
45	Urban Overheating Assessment through Prediction of Surface Temperatures: A Case Study of Karachi, Pakistan. ISPRS International Journal of Geo-Information, 2021, 10, 539.	2.9	26
46	Dissemination Practices of Construction Sites' Technology Vendors in Technology Exhibitions. Journal of Management in Engineering - ASCE, 2018, 34, 04018038.	4.8	25
47	Digital Construction Technology and Job-site Equipment Demonstration: Modelling Relationship Strategies for Technology Adoption. Buildings, 2019, 9, 158.	3.1	24
48	System Dynamics Model to Determine Concession Period of PPP Infrastructure Projects: Overarching Effects of Critical Success Factors. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2018, 10, .	1.4	21
49	Digital technology utilisation decisions for facilitating the implementation of Industry 4.0 technologies. Construction Innovation, 2021, 21, 476-489.	2.7	21
50	Implementation of BIM Energy Analysis and Monte Carlo Simulation for Estimating Building Energy Performance Based on Regression Approach: A Case Study. Buildings, 2022, 12, 449.	3.1	21
51	The role of customers and vendors in modern construction equipment technology diffusion. Engineering, Construction and Architectural Management, 2017, 24, 1203-1221.	3.1	20
52	Measuring non-road diesel emissions in the construction industry: a synopsis of the literature. International Journal of Construction Management, 2021, 21, 582-597.	3.2	20
53	Applications of object detection in modular construction based on a comparative evaluation of deep learning algorithms. Construction Innovation, 2022, 22, 141-159.	2.7	20
54	Immersive on-the-job training module development and modeling users' behavior using parametric multi-group analysis: A modified educational technology acceptance model. Technology in Society, 2022, 68, 101921.	9.4	20

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55	BIM and Digital Tools for State-of-the-Art Construction Cost Management. Buildings, 2022, 12, 396.	3.1	20
56	Evaluation of Classical Operators and Fuzzy Logic Algorithms for Edge Detection of Panels at Exterior Cladding of Buildings. Buildings, 2019, 9, 40.	3.1	18
57	The SDGs, Ecosystem Services and Cities: A Network Analysis of Current Research Innovation for Implementing Urban Sustainability. Sustainability, 2021, 13, 14057.	3.2	18
58	Beyond the Backyard: GIS Analysis of Public Green Space Accessibility in Australian Metropolitan Areas. Sustainability, 2022, 14, 4694.	3.2	18
59	Onsite Quality Check for Installation of Prefabricated Wall Panels Using Laser Scanning. Buildings, 2021, 11, 412.	3.1	15
60	Factors Influencing BIM Adoption in Small and Medium Sized Construction Organizations. , 2016, , .		15
61	An Investigation of Virtual Reality Technology Adoption in the Construction Industry. , 0, , .		15
62	Engineering Procurement Construction in the Context of Belt and Road Infrastructure Projects in West Asia: A SWOT Analysis. Journal of Risk and Financial Management, 2021, 14, 92.	2.3	14
63	Waste management and possible directions of utilising digital technologies in the construction context. Journal of Cleaner Production, 2021, 324, 129095.	9.3	14
64	A novel attention-based deep learning method for post-disaster building damage classification. Expert Systems With Applications, 2022, 202, 117268.	7.6	14
65	An Investigation on Virtual Information Modeling Acceptance Based on Project Management Knowledge Areas. Buildings, 2018, 8, 80.	3.1	13
66	Technology Acceptance in e-Governance: A Case of a Finance Organization. Journal of Risk and Financial Management, 2020, 13, 138.	2.3	12
67	Sustainable Architecture Creating Arches Using a Bamboo Grid Shell Structure: Numerical Analysis and Design. Sustainability, 2021, 13, 2598.	3.2	11
68	Utilisation of a New Terrestrial Scanner for Reconstruction of As-Built Models: A Comparative Study. , 2015, , .		11
69	Life-Cycle Assessment of Fly Ash and Cenosphere-Based Geopolymer Material. Sustainability, 2021, 13, 11167.	3.2	11
70	Factors Influencing the Decision of Technology Adoption in Construction. , 2012, , .		10
71	Implementation of Rapid As-built Building Information Modeling Using Mobile LiDAR. , 2014, , .		10
72	A Study of Information Technology Adoption for Real-Estate Management: A System Dynamic Model. , 2019, , 469-486.		10

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73	3D Printing Architectural Freeform Elements: Challenges and Opportunities in Manufacturing for Industry 4.0. , 2019, , .		10
74	Examining the impact of students' attendance, sketching, visualization, and tutors experience on students' performance: a case of building structures course in construction management. Construction Economics and Building, 2020, 20, .	0.9	9
75	A Novel Damage Model for Strata Layers and Coal Mass. Energies, 2020, 13, 1928.	3.1	9
76	Developing Metrics for Quantifying Buildings' 3D Compactness and Visualizing Point Cloud Data on a Web-Based App and Dashboard. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	3.8	8
77	A new concept to design combined support under dynamic loading using numerical modelling. Tunnelling and Underground Space Technology, 2021, 117, 104132.	6.2	8
78	Using Regression Model to Develop Green Building Energy Simulation by BIM Tools. Sustainability, 2022, 14, 6262.	3.2	8
79	Application of building information modelling for fire hazard management in high-rise buildings: an investigation in Sri Lanka. Intelligent Buildings International, 2022, 14, 207-221.	2.3	7
80	An Integration of Wi-Fi Based Locating System and GIS for Improving Construction Labour Communications. , 2017, , .		7
81	City Digital Twin Concepts: A Vision for Community Participation. , 2022, 12, .		7
82	Measuring installation productivity in prefabricated timber construction. Engineering, Construction and Architectural Management, 2019, 26, 578-598.	3.1	6
83	5D BIM Applications in Quantity Surveying: Dynamo and 3D Printing Technologies. , 2020, , .		6
84	Conceptual Framework for the Service-Oriented Management of Construction Labor Resource. EMJ - Engineering Management Journal, 2022, 34, 543-558.	2.3	6
85	Discussion of "Barriers of Implementing Modern Methods of Construction" by M. Motiar Rahman. Journal of Management in Engineering - ASCE, 2016, 32, .	4.8	5
86	Monitoring Physical Progress of Indoor Buildings Using Mobile and Terrestrial Point Clouds. , 2018, , .		5
87	Developing Shuffled Frog-Leaping Algorithm (SFLA) Method to Solve Power Load-Constrained TCRTO Problems in Civil Engineering. Advances in Civil Engineering, 2019, 2019, 1-16.	0.7	5
88	Energy Performance of a High-Rise Residential Building Using Fibre-Reinforced Structural Lightweight Aggregate Concrete. Applied Sciences (Switzerland), 2020, 10, 4489.	2.5	5
89	Information asymmetries between vendors and customers in the advanced construction technology diffusion process. Construction Innovation, 2021, 21, 857-874.	2.7	5
90	Developing a Scoring System to Evaluate the Level of Smartness in Commercial Buildings: A Case of Sri Lanka. Buildings, 2021, 11, 644.	3.1	5

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91	Implication of a Construction Labour Tracking System for Measuring Labour Productivity. , 2019, , 1-15.		4
92	Advanced Structural Analysis of Innovative Steelâ€"Glass Structures with Respect to the Architectural Design. Buildings, 2021, 11, 208.	3.1	4
93	Challenges and Opportunities for Implementation of Laser Scanners in Building Construction. , 2016, , .		4
94	Numerically Evaluation of FRP-Strengthened Members under Dynamic Impact Loading. Buildings, 2021, 11, 14.	3.1	4
95	Unintended Consequences of Productivity Improvement Strategies on Safety Behaviour of Construction Labourers; A Step toward the Integration of Safety and Productivity. Buildings, 2022, 12, 317.	3.1	4
96	Smart Built Environment Including Smart Home, Smart Building and Smart City: Definitions and Applied Technologies. , 0, , .		4
97	Development of Preliminary Curved Bamboo Member Design Guidelines through Finite Element Analysis. Sustainability, 2020, 12, 822.	3.2	3
98	Triggers of Delays in International Projects Using Engineering Procurement and Construction Delivery Methods in the Belt and Road Initiative: Case Study of a High-Speed Railway Projects. Sustainability, 2021, 13, 9503.	3.2	3
99	Implementation of As-Built Information Modelling UsingMobile and Terrestrial Lidar Systems. , 2014, , .		3
100	The Impact of Increased Density on Residential Property Values in Sydney, New South Wales. Buildings, 2021, 11, 650.	3.1	3
101	Diffusion Pattern Recognition of Technology Vendors in Construction. , 2014, , .		2
102	A Framework for Using Advanced Visualization Tools for Residential Property Management. , 2017, , .		2
103	Measuring Virtual Reality (VR) Technology Application and Adoption in Chinese Construction Risk Management. , 2022, 12, .		2
104	Modelling Green Technology Adoption Based on Sustainable Construction Practices. , 0, , .		2
105	Modeling Green Digital Technology Implementation in Construction. , 2018, , .		1
106	Effective Factors on Desirability of Private Open Spaces: A Case Study of Kuye Nasr Residential Buildings, Tehran. , 0, , .		1
107	The Effect of Place Attachment on Educational Efficiency in Elementary Schools. , 0, , .		1
108	A GIS-Based Risk and Safety Analysis of Entrance Areas in Educational Buildings Based on Studentsâ€™ Experience. , 2020, , .		1

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109	Assessment of the Local and Global Stability of the Luzzone Arch Dam Including Visualisation of the Data Analysis. Sustainability, 2021, 13, 4062.	3.2	1
110	Modelling the Construction Technology Implementation Framework: An Empirical Study. , 2015, , .		1
111	An Empirical Investigation on Construction Companies' Readiness for Adopting Sustainable Technology. , 2017, , .		1
112	Post-Disaster Classification of Building Damage Using Transfer Learning. , 2021, , .		1
113	A Methodology for an Automated Three-Dimensional Heathland Assessment Workflow in Support of Bushfire Behaviour Modelling. , 2022, 12, .		1
114	Digital Twin and Cities. , 2022, , 1-6.		1
115	Prioritizing Best Value Contributing Factors for Contractor Selection: An AHP Approach. , 2018, , 1121-1131.		0
116	Closure to â€œEvaluation of Terrestrial and Mobile Scanner Technologies for Part-Built Information Modelingâ€•by Samad M. E. Sepasgozar, Perry Forsythe, and Sara Shirowzhan. Journal of Construction Engineering and Management - ASCE, 2020, 146, 07019002.	3.8	0
117	Introductory Chapter: Infrastructure Management, Construction, Structure and Industry 4.0. , 0, , .		0
118	Floating Cities Bridge in 2050. , 0, , .		0
119	Introductory Chapter: Intelligence, Sustainable and Post-COVID-19 Resilience Built Environment: An Agenda for Future. , 0, , .		0
120	Challenges of Migrating from Desktop-Based BIM in Construction. , 2016, , .		0
121	Modelling the Construction On-Site Technology Adoption Process. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , .	0.0	0
122	Key Factors Affecting Construction Organizations' Acceptance of BIM: A Comparative Study. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , .	0.0	0
123	Energy optimization in modular buildings made from 3d printing. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , .	0.0	0
124	A Model for Increasing the Security of Internet of Things in Smart Transportation Systems. , 2018, , .		0
125	Developing a Workflow for Cloud-based Inspection of Temporary Structures in Construction. , 2019, , .		0
126	Developing Responsive Environments based on Design-to-Robotic-Production and -Operation Principles. , 2019, , .		0

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127	Earthscraper: A Smart Solution for Developing Future Underground Cities. , 0, , .		0
128	A New Concept to Numerically Evaluate the Performance of Yielding Support under Impulsive Loading. , 0, , .		0
129	An Investigation of Digital Technology Implementation in Off-Site Construction with a Focus on Efficiency Improvement. , 2022, 12, .		0
130	BIM Applications in Waste and Demolition Management in Circular Economy Concept. , 2022, 12, .		0
131	Dynamic Behavior of the Composite Steel–Concrete Beam Floor Systems under Free and Forced Vibration. Buildings, 2022, 12, 320.	3.1	0
132	Computational Workflow for Three-Dimension Printing in Construction: Digital Tools and Methodological Limitations. , 0, , .		0
133	Modelling User Perception of Online Visualisation in Real Estate Marketplaces. , 0, , .		0