

# Samad M E Sepasgozar

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Application of building information modelling for fire hazard management in high-rise buildings: an investigation in Sri Lanka. <i>Intelligent Buildings International</i> , 2022, 14, 207-221.	2.3	7
2	Applications of object detection in modular construction based on a comparative evaluation of deep learning algorithms. <i>Construction Innovation</i> , 2022, 22, 141-159.	2.7	20
3	Conceptual Framework for the Service-Oriented Management of Construction Labor Resource. <i>EMJ - Engineering Management Journal</i> , 2022, 34, 543-558.	2.3	6
4	Immersive on-the-job training module development and modeling users' behavior using parametric multi-group analysis: A modified educational technology acceptance model. <i>Technology in Society</i> , 2022, 68, 101921.	9.4	20
5	An Investigation of Digital Technology Implementation in Off-Site Construction with a Focus on Efficiency Improvement. , 2022, 12, .		0
6	BIM Applications in Waste and Demolition Management in Circular Economy Concept. , 2022, 12, .		0
7	Measuring Virtual Reality (VR) Technology Application and Adoption in Chinese Construction Risk Management. , 2022, 12, .		2
8	A Methodology for an Automated Three-Dimensional Heathland Assessment Workflow in Support of Bushfire Behaviour Modelling. , 2022, 12, .		1
9	BIM and Digital Tools for State-of-the-Art Construction Cost Management. <i>Buildings</i> , 2022, 12, 396.	3.1	20
10	City Digital Twin Concepts: A Vision for Community Participation. , 2022, 12, .		7
11	Dynamic Behavior of the Composite Steel-Concrete Beam Floor Systems under Free and Forced Vibration. <i>Buildings</i> , 2022, 12, 320.	3.1	0
12	Unintended Consequences of Productivity Improvement Strategies on Safety Behaviour of Construction Labourers; A Step toward the Integration of Safety and Productivity. <i>Buildings</i> , 2022, 12, 317.	3.1	4
13	Implementation of BIM Energy Analysis and Monte Carlo Simulation for Estimating Building Energy Performance Based on Regression Approach: A Case Study. <i>Buildings</i> , 2022, 12, 449.	3.1	21
14	Beyond the Backyard: GIS Analysis of Public Green Space Accessibility in Australian Metropolitan Areas. <i>Sustainability</i> , 2022, 14, 4694.	3.2	18
15	A novel attention-based deep learning method for post-disaster building damage classification. <i>Expert Systems With Applications</i> , 2022, 202, 117268.	7.6	14
16	Using Regression Model to Develop Green Building Energy Simulation by BIM Tools. <i>Sustainability</i> , 2022, 14, 6262.	3.2	8
17	Digital Twin and Cities. , 2022, , 1-6.		1
18	Measuring non-road diesel emissions in the construction industry: a synopsis of the literature. <i>International Journal of Construction Management</i> , 2021, 21, 582-597.	3.2	20

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19	Digital technology utilisation decisions for facilitating the implementation of Industry 4.0 technologies. <i>Construction Innovation</i> , 2021, 21, 476-489.	2.7	21
20	Intelligent contract adoption in the construction industry: Concept development. <i>Automation in Construction</i> , 2021, 122, 103452.	9.8	81
21	Engineering Procurement Construction in the Context of Belt and Road Infrastructure Projects in West Asia: A SWOT Analysis. <i>Journal of Risk and Financial Management</i> , 2021, 14, 92.	2.3	14
22	Information asymmetries between vendors and customers in the advanced construction technology diffusion process. <i>Construction Innovation</i> , 2021, 21, 857-874.	2.7	5
23	Sustainable Architecture Creating Arches Using a Bamboo Grid Shell Structure: Numerical Analysis and Design. <i>Sustainability</i> , 2021, 13, 2598.	3.2	11
24	Integration of BIM and Immersive Technologies for AEC: A Scientometric-SWOT Analysis and Critical Content Review. <i>Buildings</i> , 2021, 11, 126.	3.1	58
25	Developing Metrics for Quantifying Buildings' 3D Compactness and Visualizing Point Cloud Data on a Web-Based App and Dashboard. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021, 147, .	3.8	8
26	Differentiating Digital Twin from Digital Shadow: Elucidating a Paradigm Shift to Expedite a Smart, Sustainable Built Environment. <i>Buildings</i> , 2021, 11, 151.	3.1	144
27	Metrics development and modelling the mixed reality and digital twin adoption in the context of Industry 4.0. <i>Engineering, Construction and Architectural Management</i> , 2021, 28, 1355-1376.	3.1	37
28	Assessment of the Local and Global Stability of the Luzzone Arch Dam Including Visualisation of the Data Analysis. <i>Sustainability</i> , 2021, 13, 4062.	3.2	1
29	Barriers to the digitalisation and innovation of Australian Smart Real Estate: A managerial perspective on the technology non-adoption. <i>Environmental Technology and Innovation</i> , 2021, 22, 101527.	6.1	66
30	It's all about perceptions: A DEMATEL approach to exploring user perceptions of real estate online platforms. <i>Ain Shams Engineering Journal</i> , 2021, 12, 4297-4317.	6.1	43
31	Advanced Structural Analysis of Innovative Steel-Glass Structures with Respect to the Architectural Design. <i>Buildings</i> , 2021, 11, 208.	3.1	4
32	Risk management in sustainable smart cities governance: A TOE framework. <i>Technological Forecasting and Social Change</i> , 2021, 167, 120743.	11.6	143
33	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. <i>Sustainability</i> , 2021, 13, 9503.	3.2	3
34	Urban Overheating Assessment through Prediction of Surface Temperatures: A Case Study of Karachi, Pakistan. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 539.	2.9	26
35	Waste management and possible directions of utilising digital technologies in the construction context. <i>Journal of Cleaner Production</i> , 2021, 324, 129095.	9.3	14
36	Onsite Quality Check for Installation of Prefabricated Wall Panels Using Laser Scanning. <i>Buildings</i> , 2021, 11, 412.	3.1	15

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37	Modelling users'™ perception of the online real estate platforms in a digitally disruptive environment: An integrated KANO-SISQual approach. <i>Telematics and Informatics</i> , 2021, 63, 101660.	5.8	29
38	A new concept to design combined support under dynamic loading using numerical modelling. <i>Tunnelling and Underground Space Technology</i> , 2021, 117, 104132.	6.2	8
39	Lean Practices Using Building Information Modeling (BIM) and Digital Twinning for Sustainable Construction. <i>Sustainability</i> , 2021, 13, 161.	3.2	65
40	Post-Disaster Classification of Building Damage Using Transfer Learning. , 2021, , .		1
41	Life-Cycle Assessment of Fly Ash and Cenosphere-Based Geopolymer Material. <i>Sustainability</i> , 2021, 13, 11167.	3.2	11
42	Numerically Evaluation of FRP-Strengthened Members under Dynamic Impact Loading. <i>Buildings</i> , 2021, 11, 14.	3.1	4
43	Project Data Categorization, Adoption Factors, and Non-Functional Requirements for Blockchain Based Digital Twins in the Construction Industry 4.0. <i>Buildings</i> , 2021, 11, 626.	3.1	32
44	Adoption of Blockchain Technology through Digital Twins in the Construction Industry 4.0: A PESTELS Approach. <i>Buildings</i> , 2021, 11, 670.	3.1	58
45	The SDGs, Ecosystem Services and Cities: A Network Analysis of Current Research Innovation for Implementing Urban Sustainability. <i>Sustainability</i> , 2021, 13, 14057.	3.2	18
46	Developing a Scoring System to Evaluate the Level of Smartness in Commercial Buildings: A Case of Sri Lanka. <i>Buildings</i> , 2021, 11, 644.	3.1	5
47	The Impact of Increased Density on Residential Property Values in Sydney, New South Wales. <i>Buildings</i> , 2021, 11, 650.	3.1	3
48	Closure to "Evaluation of Terrestrial and Mobile Scanner Technologies for Part-Built Information Modeling" by Samad M. E. Sepasgozar, Perry Forsythe, and Sara Shirowzhan. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, 07019002.	3.8	0
49	Examining the impact of students'™ attendance, sketching, visualization, and tutors experience on students'™ performance: a case of building structures course in construction management. <i>Construction Economics and Building</i> , 2020, 20, .	0.9	9
50	Automated PPE-Tool pair check system for construction safety using smart IoT. <i>Journal of Building Engineering</i> , 2020, 32, 101721.	3.4	47
51	Criteria development for sustainable construction manufacturing in Construction Industry 4.0. <i>Construction Innovation</i> , 2020, 20, 379-400.	2.7	42
52	Energy Performance of a High-Rise Residential Building Using Fibre-Reinforced Structural Lightweight Aggregate Concrete. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4489.	2.5	5
53	A Systematic Review of Digital Technology Adoption in Off-Site Construction: Current Status and Future Direction towards Industry 4.0. <i>Buildings</i> , 2020, 10, 204.	3.1	158
54	Digital Twin and Web-Based Virtual Gaming Technologies for Online Education: A Case of Construction Management and Engineering. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4678.	2.5	114

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55	Developing a theoretical framework for intelligent contract acceptance. <i>Construction Innovation</i> , 2020, 20, 421-445.	2.7	47
56	A GIS-Based Risk and Safety Analysis of Entrance Areas in Educational Buildings Based on Studentsâ€™ Experience. , 2020, , .		1
57	Additive Manufacturing Applications for Industry 4.0: A Systematic Critical Review. <i>Buildings</i> , 2020, 10, 231.	3.1	81
58	5D BIM Applications in Quantity Surveying: Dynamo and 3D Printing Technologies. , 2020, , .		6
59	The Performance Gap in Energy-Efficient Office Buildings: How the Occupants Can Help?. <i>Energies</i> , 2020, 13, 1480.	3.1	30
60	Key Factors Influencing Purchase or Rent Decisions in Smart Real Estate Investments: A System Dynamics Approach Using Online Forum Thread Data. <i>Sustainability</i> , 2020, 12, 4382.	3.2	38
61	Technology Acceptance in e-Governance: A Case of a Finance Organization. <i>Journal of Risk and Financial Management</i> , 2020, 13, 138.	2.3	12
62	Smart Digital Marketing Capabilities for Sustainable Property Development: A Case of Malaysia. <i>Sustainability</i> , 2020, 12, 5402.	3.2	58
63	Development of Preliminary Curved Bamboo Member Design Guidelines through Finite Element Analysis. <i>Sustainability</i> , 2020, 12, 822.	3.2	3
64	Data mining for recognition of spatial distribution patterns of building heights using airborne lidar data. <i>Advanced Engineering Informatics</i> , 2020, 43, 101033.	8.0	32
65	BIM compatibility and its differentiation with interoperability challenges as an innovation factor. <i>Automation in Construction</i> , 2020, 112, 103086.	9.8	103
66	A Systematic Content Review of Artificial Intelligence and the Internet of Things Applications in Smart Home. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3074.	2.5	80
67	Digital Twin and CyberGIS for Improving Connectivity and Measuring the Impact of Infrastructure Construction Planning in Smart Cities. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 240.	2.9	91
68	Big Data and Its Applications in Smart Real Estate and the Disaster Management Life Cycle: A Systematic Analysis. <i>Big Data and Cognitive Computing</i> , 2020, 4, 4.	4.7	81
69	A Novel Damage Model for Strata Layers and Coal Mass. <i>Energies</i> , 2020, 13, 1928.	3.1	9
70	BIM adoption model for small and medium construction organisations in Australia. <i>Engineering, Construction and Architectural Management</i> , 2019, 26, 154-183.	3.1	91
71	Digital Construction Technology and Job-site Equipment Demonstration: Modelling Relationship Strategies for Technology Adoption. <i>Buildings</i> , 2019, 9, 158.	3.1	24
72	Delay Causes and Emerging Digital Tools: A Novel Model of Delay Analysis, Including Integrated Project Delivery and PMBOK. <i>Buildings</i> , 2019, 9, 191.	3.1	50

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73	A scientometric analysis and critical review of construction related ontology research. Automation in Construction, 2019, 101, 17-31.	9.8	163
74	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
75	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
76	Measuring installation productivity in prefabricated timber construction. Engineering, Construction and Architectural Management, 2019, 26, 578-598.	3.1	6
77	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
78	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
79	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
80	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
81	Implication of a Construction Labour Tracking System for Measuring Labour Productivity. , 2019, , 1-15.		4
82	Green Performance Evaluation System for Energy-Efficiency-Based Planning for Construction Site Layout. Energies, 2019, 12, 4620.	3.1	28
83	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
84	A Study of Information Technology Adoption for Real-Estate Management: A System Dynamic Model. , 2019, , 469-486.		10
85	3D Printing Architectural Freeform Elements: Challenges and Opportunities in Manufacturing for Industry 4.0. , 2019, , .		10
86	Developing a Workflow for Cloud-based Inspection of Temporary Structures in Construction. , 2019, , .		0
87	Developing Responsive Environments based on Design-to-Robotic-Production and -Operation Principles. , 2019, , .		0
88	Prioritizing Best Value Contributing Factors for Contractor Selection: An AHP Approach. , 2018, , 1121-1131.		0
89	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
90	Three-Dimensional Printing Using Recycled High-Density Polyethylene: Technological Challenges and Future Directions for Construction. Buildings, 2018, 8, 165.	3.1	28

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91	An investigation of modern building equipment technology adoption in the Australian construction industry. <i>Engineering, Construction and Architectural Management</i> , 2018, 25, 1075-1091.	3.1	28
92	A Systematic Review of Smart Real Estate Technology: Drivers of, and Barriers to, the Use of Digital Disruptive Technologies and Online Platforms. <i>Sustainability</i> , 2018, 10, 3142.	3.2	107
93	Spatial compactness metrics and Constrained Voxel Automata development for analyzing 3D densification and applying to point clouds: A synthetic review. <i>Automation in Construction</i> , 2018, 96, 236-249.	9.8	37
94	Evaluation of Terrestrial and Mobile Scanner Technologies for Part-Built Information Modeling. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, .	3.8	31
95	Monitoring Physical Progress of Indoor Buildings Using Mobile and Terrestrial Point Clouds. , 2018, , .		5
96	Modeling Green Digital Technology Implementation in Construction. , 2018, , .		1
97	Construction Technology Adoption Cube: An Investigation on Process, Factors, Barriers, Drivers and Decision Makers Using NVivo and AHP Analysis. <i>Buildings</i> , 2018, 8, 74.	3.1	62
98	An Investigation on Virtual Information Modeling Acceptance Based on Project Management Knowledge Areas. <i>Buildings</i> , 2018, 8, 80.	3.1	13
99	System Dynamics Model to Determine Concession Period of PPP Infrastructure Projects: Overarching Effects of Critical Success Factors. <i>Journal of Legal Affairs and Dispute Resolution in Engineering and Construction</i> , 2018, 10, .	1.4	21
100	Dissemination Practices of Construction Sitesâ€™ Technology Vendors in Technology Exhibitions. <i>Journal of Management in Engineering - ASCE</i> , 2018, 34, 04018038.	4.8	25
101	A Model for Increasing the Security of Internet of Things in Smart Transportation Systems. , 2018, , .		0
102	Application of differential transformation method (DTM) for heat and mass transfer in a porous channel. <i>Propulsion and Power Research</i> , 2017, 6, 41-48.	4.3	33
103	A Scanner Technology Acceptance Model for Construction Projects. <i>Procedia Engineering</i> , 2017, 180, 1237-1246.	1.2	38
104	The role of customers and vendors in modern construction equipment technology diffusion. <i>Engineering, Construction and Architectural Management</i> , 2017, 24, 1203-1221.	3.1	20
105	An Empirical Investigation on Construction Companies' Readiness for Adopting Sustainable Technology. , 2017, , .		1
106	An Integration of Wi-Fi Based Locating System and GIS for Improving Construction Labour Communications. , 2017, , .		7
107	A Framework for Using Advanced Visualization Tools for Residential Property Management. , 2017, , .		2
108	Conceptualising information and equipment technology adoption in construction. <i>Engineering, Construction and Architectural Management</i> , 2016, 23, 158-176.	3.1	64

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109	Discussion of "Barriers of Implementing Modern Methods of Construction" by M. Motiar Rahman. Journal of Management in Engineering - ASCE, 2016, 32, .	4.8	5
110	Factors Influencing BIM Adoption in Small and Medium Sized Construction Organizations. , 2016, , .		15
111	Challenges and Opportunities for Implementation of Laser Scanners in Building Construction. , 2016, , .		4
112	Challenges of Migrating from Desktop-Based BIM in Construction. , 2016, , .		0
113	Utilisation of a New Terrestrial Scanner for Reconstruction of As-Built Models: A Comparative Study. , 2015, , .		11
114	Modelling the Construction Technology Implementation Framework: An Empirical Study. , 2015, , .		1
115	Implementation of Rapid As-built Building Information Modeling Using Mobile LiDAR. , 2014, , .		10
116	Diffusion Pattern Recognition of Technology Vendors in Construction. , 2014, , .		2
117	Implementation of As-Built Information Modelling Using Mobile and Terrestrial Lidar Systems. , 2014, , .		3
118	Factors Influencing the Decision of Technology Adoption in Construction. , 2012, , .		10
119	Effective Factors on Desirability of Private Open Spaces: A Case Study of Kuye Nasr Residential Buildings, Tehran. , 0, , .		1
120	Introductory Chapter: Infrastructure Management, Construction, Structure and Industry 4.0. , 0, , .		0
121	The Effect of Place Attachment on Educational Efficiency in Elementary Schools. , 0, , .		1
122	Floating Cities Bridge in 2050. , 0, , .		0
123	Introductory Chapter: Intelligence, Sustainable and Post-COVID-19 Resilience Built Environment: An Agenda for Future. , 0, , .		0
124	An Investigation of Virtual Reality Technology Adoption in the Construction Industry. , 0, , .		15
125	Modelling the Construction On-Site Technology Adoption Process. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , .	0.0	0
126	Key Factors Affecting Construction Organizations' Acceptance of BIM: A Comparative Study. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , .	0.0	0



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127	Energy optimization in modular buildings made from 3d printing. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , .	0.0	0
128	Earthscraper: A Smart Solution for Developing Future Underground Cities. , 0, , .		0
129	A New Concept to Numerically Evaluate the Performance of Yielding Support under Impulsive Loading. , 0, , .		0
130	Smart Built Environment Including Smart Home, Smart Building and Smart City: Definitions and Applied Technologies. , 0, , .		4
131	Computational Workflow for Three-Dimension Printing in Construction: Digital Tools and Methodological Limitations. , 0, , .		0
132	Modelling User Perception of Online Visualisation in Real Estate Marketplaces. , 0, , .		0
133	Modelling Green Technology Adoption Based on Sustainable Construction Practices. , 0, , .		2