

Frédéric Bosch

List of Publications by Year in descending order

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54
papers

3,076
citations

218381

26
h-index

395343

33
g-index

55
all docs

55
docs citations

55
times ranked

1622
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated recognition of 3D CAD model objects in laser scans and calculation of as-built dimensions for dimensional compliance control in construction. <i>Advanced Engineering Informatics</i> , 2010, 24, 107-118.	4.0	355
2	The value of integrating Scan-to-BIM and Scan-vs-BIM techniques for construction monitoring using laser scanning and BIM: The case of cylindrical MEP components. <i>Automation in Construction</i> , 2015, 49, 201-213.	4.8	352
3	Automated progress tracking using 4D schedule and 3D sensing technologies. <i>Automation in Construction</i> , 2012, 22, 414-421.	4.8	279
4	Automated retrieval of 3D CAD model objects in construction range images. <i>Automation in Construction</i> , 2008, 17, 499-512.	4.8	212
5	Musculoskeletal disorders in construction: A review and a novel system for activity tracking with body area network. <i>Applied Ergonomics</i> , 2016, 54, 120-130.	1.7	154
6	Plane-based registration of construction laser scans with 3D/4D building models. <i>Advanced Engineering Informatics</i> , 2012, 26, 90-102.	4.0	138
7	Automated Recognition of 3D CAD Objects in Site Laser Scans for Project 3D Status Visualization and Performance Control. <i>Journal of Computing in Civil Engineering</i> , 2009, 23, 311-318.	2.5	117
8	As-built data acquisition and its use in production monitoring and automated layout of civil infrastructure: A survey. <i>Advanced Engineering Informatics</i> , 2015, 29, 172-183.	4.0	116
9	Automating surface flatness control using terrestrial laser scanning and building information models. <i>Automation in Construction</i> , 2014, 44, 212-226.	4.8	106
10	Tracking the Built Status of MEP Works: Assessing the Value of a Scan-vs-BIM System. <i>Journal of Computing in Civil Engineering</i> , 2014, 28, .	2.5	97
11	Fitting range data to primitives for rapid local 3D modeling using sparse range point clouds. <i>Automation in Construction</i> , 2004, 13, 67-81.	4.8	93
12	Automated defect detection and classification in ashlar masonry walls using machine learning. <i>Automation in Construction</i> , 2019, 106, 102846.	4.8	92
13	Analysis of construction trade worker body motions using a wearable and wireless motion sensor network. <i>Automation in Construction</i> , 2017, 83, 48-55.	4.8	84
14	4-Plane congruent sets for automatic registration of as-is 3D point clouds with 3D BIM models. <i>Automation in Construction</i> , 2018, 89, 120-134.	4.8	79
15	Toward Automated Earned Value Tracking Using 3D Imaging Tools. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, 423-433.	2.0	78
16	Planning for terrestrial laser scanning in construction: A review. <i>Automation in Construction</i> , 2021, 125, 103551.	4.8	66
17	Automatic segmentation of 3D point clouds of rubble masonry walls, and its application to building surveying, repair and maintenance. <i>Automation in Construction</i> , 2018, 96, 29-39.	4.8	65
18	Towards a Mixed Reality System for Construction Trade Training. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, .	2.5	64

#	ARTICLE	IF	CITATIONS
19	Markerless VisionÄ©Based Augmented Reality for Urban Planning. Computer-Aided Civil and Infrastructure Engineering, 2014, 29, 2-17.	6.3	56
20	Tracking of secondary and temporary objects in structural concrete work. Construction Innovation, 2014, 14, 145-167.	1.5	55
21	Door detection in 3D coloured point clouds of indoor environments. Automation in Construction, 2018, 85, 146-166.	4.8	55
22	Scan-to-BIM for Ä©secondaryÄ©™ building components. Advanced Engineering Informatics, 2018, 37, 119-138.	4.0	55
23	Semantic 3D Reconstruction of Furnished Interiors Using Laser Scanning and RFID Technology. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	44
24	Assessment of compliance of dimensional tolerances in concrete slabs using TLS data and the 2D continuous wavelet transform. Automation in Construction, 2018, 94, 62-72.	4.8	38
25	An autonomous robotic platform for automatic extraction of detailed semantic models of buildings. Automation in Construction, 2020, 109, 102963.	4.8	36
26	Terrestrial laser scanning and continuous wavelet transform for controlling surface flatness in construction Ä© A first investigation. Advanced Engineering Informatics, 2015, 29, 591-601.	4.0	33
27	Haarlet-based hand gesture recognition for 3D interaction. , 2009, , .		23
28	Empiric design evaluation in urban planning. Automation in Construction, 2011, 20, 299-310.	4.8	23
29	Complexity for Megaprojects in the Energy Sector. Journal of Management in Engineering - ASCE, 2017, 33, .	2.6	21
30	Tracking Secondary and Temporary Concrete Construction Objects Using 3D Imaging Technologies. , 2013, , .		20
31	Rapid Human-Assisted, Obstacle Avoidance System using Sparse Range Point Clouds. , 2004, , 115.		12
32	Planning for Scanning Using Building Information Models: A Novel Approach with Occlusion Handling. , 2015, , .		12
33	Towards a Cyber-Physical Gaming System for Training in the Construction and Engineering Industry. , 2014, , .		7
34	Real-Time, Three-Dimensional Object Detection and Modeling in Construction. , 2005, , .		6
35	Robust 6-DOF immersive navigation using commodity hardware. , 2014, , .		5
36	Towards Automated Retrieval of 3D Designed Data in 3D Sensed Data. , 2007, , .		4

#	ARTICLE	IF	CITATIONS
37	Automatic MEP Component Detection with Deep Learning. Lecture Notes in Computer Science, 2021, , 373-388.	1.0	4
38	Automatic Surface Flatness Control using Terrestrial Laser Scanning Data and the 2D Continuous Wavelet Transform. , 2016, , .		3
39	Algorithms for Fitting Cylindrical Objects to Sparse Range Point Clouds for Rapid Workspace Modeling. , 2003, , .		3
40	Briefing: Process digital twin: lessons learned from a construction case study. Proceedings of Institution of Civil Engineers: Management, Procurement and Law, 2022, 175, 97-99.	0.4	2
41	Markerless vision-based augmented reality for enhanced project visualization. Gerontechnology, 2012, 11, .	0.0	2
42	Real-Time Three-Dimensional Object Detection and Tracking in Transportation. , 2006, , 123.		1
43	Plane-Based Coarse Registration of 3D Point Clouds with 4D Models. , 2011, , .		1
44	Scan-To-BIM for Small Building Components. , 0, , .		1
45	Primitives Merging For Rapid 3D Modeling. , 2003, , .		1
46	Controlling Slab Flatness Automatically Using Laser Scanning and BIM. , 2014, , .		1
47	COMPARISON OF 3D REALITY CAPTURE TECHNOLOGIES FOR THE SURVEY OF STONE WALLS. , 0, , .		1
48	UrbanPlanAR: BIM Mobile Visualisation in Urban Environments with Occlusion-Aware Augmented Reality. , 0, , .		1
49	Laser scanning for BIM. Journal of Information Technology in Construction, 2022, 27, 486-495.	1.4	1
50	Special Issue of 28th Education and Research in Computer Aided Architecture Design in Europe (eCAADe) Conference. Automation in Construction, 2012, 22, 1.	4.8	0
51	Editorial: ISARC 2013. Automation in Construction, 2015, 49, 175.	4.8	0
52	Markerless Vision-Based Augmented Reality for Enhanced Project Visualization. , 2012, , .		0
53	Automated earned-value tracking. Gerontechnology, 2012, 11, .	0.0	0
54	Laser Scanning and the Continuous Wavelet Transform for Flatness Control. , 2015, , .		0