FrÃ©dÃ©ric BoschÃ©

List of Publications by Year
in descending order

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	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
2	Laser scanning for BIM. Journal of Information Technology in Construction, 2022, 27, 486-495.	1.4	1
3	Automatic MEP Component Detection with Deep Learning. Lecture Notes in Computer Science, 2021, , 373-388.	1.0	4
4	Planning for terrestrial laser scanning in construction: A review. Automation in Construction, 2021, 125, 103551.	4.8	66
5	An autonomous robotic platform for automatic extraction of detailed semantic models of buildings. Automation in Construction, 2020, 109, 102963.	4.8	36
6	Automated defect detection and classification in ashlar masonry walls using machine learning. Automation in Construction, 2019, 106, 102846.	4.8	92
7	4-Plane congruent sets for automatic registration of as-is 3D point clouds with 3D BIM models. Automation in Construction, 2018, 89, 120-134.	4.8	79
8	Door detection in 3D coloured point clouds of indoor environments. Automation in Construction, 2018, 85, 146-166.	4.8	55
9	Automatic segmentation of 3D point clouds of rubble masonry walls, and its application to building surveying, repair and maintenance. Automation in Construction, 2018, 96, 29-39.	4.8	65
10	Scan-to-BIM for â€˜secondaryâ€™ building components. Advanced Engineering Informatics, 2018, 37, 119-138.	4.0	55
11	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
12	Complexity for Megaprojects in the Energy Sector. Journal of Management in Engineering - ASCE, 2017, 33, .	2.6	21
13	Analysis of construction trade worker body motions using a wearable and wireless motion sensor network. Automation in Construction, 2017, 83, 48-55.	4.8	84
14	Towards a Mixed Reality System for Construction Trade Training. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	64
15	Musculoskeletal disorders in construction: A review and a novel system for activity tracking with body area network. Applied Ergonomics, 2016, 54, 120-130.	1.7	154
16	Semantic 3D Reconstruction of Furnished Interiors Using Laser Scanning and RFID Technology. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	44
17	Automatic Surface Flatness Control using Terrestrial Laser Scanning Data and the 2D Continuous Wavelet Transform. , 2016, , .		3
18	As-built data acquisition and its use in production monitoring and automated layout of civil infrastructure: A survey. Advanced Engineering Informatics, 2015, 29, 172-183.	4.0	116

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19	Terrestrial laser scanning and continuous wavelet transform for controlling surface flatness in construction â€" A first investigation. Advanced Engineering Informatics, 2015, 29, 591-601.	4.0	33
20	Editorial: ISARC 2013. Automation in Construction, 2015, 49, 175.	4.8	0
21	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. Automation in Construction, 2015, 49, 201-213.	4.8	352
22	Planning for Scanning Using Building Information Models: A Novel Approach with Occlusion Handling. , 2015, , .		12
23	Laser Scanning and the Continuous Wavelet Transform for Flatness Control. , 2015, , .		0
24	Tracking of secondary and temporary objects in structural concrete work. Construction Innovation, 2014, 14, 145-167.	1.5	55
25	Robust 6-DOF immersive navigation using commodity hardware. , 2014, , .		5
26	Tracking the Built Status of MEP Works: Assessing the Value of a Scan-vs-BIM System. Journal of Computing in Civil Engineering, 2014, 28, .	2.5	97
27	Automating surface flatness control using terrestrial laser scanning and building information models. Automation in Construction, 2014, 44, 212-226.	4.8	106
28	Markerless Visionâ€Based Augmented Reality for Urban Planning. Computer-Aided Civil and Infrastructure Engineering, 2014, 29, 2-17.	6.3	56
29	Towards a Cyber-Physical Gaming System for Training in the Construction and Engineering Industry. , 2014, , .		7
30	Controlling Slab Flatness Automatically Using Laser Scanning and BIM. , 2014, , .		1
31	Toward Automated Earned Value Tracking Using 3D Imaging Tools. Journal of Construction Engineering and Management - ASCE, 2013, 139, 423-433.	2.0	78
32	Tracking Secondary and Temporary Concrete Construction Objects Using 3D Imaging Technologies. , 2013, , .		20
33	Plane-based registration of construction laser scans with 3D/4D building models. Advanced Engineering Informatics, 2012, 26, 90-102.	4.0	138
34	Automated progress tracking using 4D schedule and 3D sensing technologies. Automation in Construction, 2012, 22, 414-421.	4.8	279
35	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
36	Markerless Vision-Based Augmented Reality for Enhanced Project Visualization. , 2012, , .		0

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37	Automated earned-value tracking. Gerontechnology, 2012, 11, .	0.0	0
38	Markerless vision-based augmented reality for enhanced project visualization. Gerontechnology, 2012, 11, .	0.0	2
39	Empiric design evaluation in urban planning. Automation in Construction, 2011, 20, 299-310.	4.8	23
40	Plane-Based Coarse Registration of 3D Point Clouds with 4D Models. , 2011, , .		1
41	Automated recognition of 3D CAD model objects in laser scans and calculation of as-built dimensions for dimensional compliance control in construction. Advanced Engineering Informatics, 2010, 24, 107-118.	4.0	355
42	Automated Recognition of 3D CAD Objects in Site Laser Scans for Project 3D Status Visualization and Performance Control. Journal of Computing in Civil Engineering, 2009, 23, 311-318.	2.5	117
43	Haarlet-based hand gesture recognition for 3D interaction. , 2009, , .		23
44	Automated retrieval of 3D CAD model objects in construction range images. Automation in Construction, 2008, 17, 499-512.	4.8	212
45	Towards Automated Retrieval of 3D Designed Data in 3D Sensed Data. , 2007, , .		4
46	Real-Time Three-Dimensional Object Detection and Tracking in Transportation. , 2006, , 123.		1
47	Real-Time, Three-Dimensional Object Detection and Modeling in Construction. , 2005, , .		6
48	Fitting range data to primitives for rapid local 3D modeling using sparse range point clouds. Automation in Construction, 2004, 13, 67-81.	4.8	93
49	Rapid Human-Assisted, Obstacle Avoidance System using Sparse Range Point Clouds. , 2004, , 115.		12
50	Primitives Merging For Rapid 3D Modeling. , 2003, , .		1
51	Algorithms for Fitting Cylindrical Objects to Sparse Range Point Clouds for Rapid Workspace Modeling. , 2003, , .		3
52	Scan-To-BIM for Small Building Components. , 0, , .		1
53	COMPARISON OF 3D REALITY CAPTURE TECHNOLOGIES FOR THE SURVEY OF STONE WALLS. , 0, , .		1
54	UrbanPlanAR: BIM Mobile Visualisation in Urban Environments with Occlusion-Aware Augmented Reality. , 0, , .		1