

# Pablo Martinez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8807469/publications.pdf>

Version: 2024-02-01

28  
papers

689  
citations

758635

12  
h-index

642321

23  
g-index

28  
all docs

28  
docs citations

28  
times ranked

357  
citing authors

#	ARTICLE	IF	CITATIONS
1	A scientometric analysis and critical review of computer vision applications for construction. Automation in Construction, 2019, 107, 102947.	4.8	126
2	The digitization of agricultural industry – a systematic literature review on agriculture 4.0. Smart Agricultural Technology, 2022, 2, 100042.	3.1	107
3	Towards automated aquaponics: A review on monitoring, IoT, and smart systems. Journal of Cleaner Production, 2020, 263, 121571.	4.6	95
4	A vision-based system for pre-inspection of steel frame manufacturing. Automation in Construction, 2019, 97, 151-163.	4.8	75
5	A vision-based approach for automatic progress tracking of floor paneling in offsite construction facilities. Automation in Construction, 2021, 125, 103620.	4.8	37
6	BIM-based decision support system for automated manufacturability check of wood frame assemblies. Automation in Construction, 2020, 111, 103065.	4.8	31
7	Real-time growth rate and fresh weight estimation for little gem romaine lettuce in aquaponic grow beds. Computers and Electronics in Agriculture, 2020, 179, 105827.	3.7	30
8	Comparative Study of Data Mining Models for Prediction of Bridge Future Conditions. Journal of Performance of Constructed Facilities, 2020, 34, .	1.0	29
9	Intelligent vision-based online inspection system of screw-fastening operations in light-gauge steel frame manufacturing. International Journal of Advanced Manufacturing Technology, 2020, 109, 645-657.	1.5	27
10	Real-time visual detection and correction of automatic screw operations in dimpled light-gauge steel framing with pre-drilled pilot holes. Procedia Manufacturing, 2019, 34, 798-803.	1.9	14
11	Automated verification of 3D manufacturability for steel frame assemblies. Automation in Construction, 2020, 118, 103287.	4.8	14
12	An ontology model to support the automated design of aquaponic grow beds. Procedia CIRP, 2021, 100, 55-60.	1.0	13
13	Simulation-Driven Design of Wood Framing Support Systems for Off-Site Construction Machinery. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020075.	2.0	10
14	Ontology-Based Knowledge Modeling for Frame Assemblies Manufacturing. , 2019, , .		10
15	An ontology model to represent aquaponics 4.0 system’s knowledge. Information Processing in Agriculture, 2022, 9, 514-532.	2.9	10
16	Automatic Selection Tool of Quality Control Specifications for Off-site Construction Manufacturing Products: A BIM-based Ontology Model Approach. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , 141-148.	0.0	9
17	A cyber-physical system approach to zero-defect manufacturing in light-gauge steel frame assemblies. Procedia Computer Science, 2022, 200, 924-933.	1.2	8
18	Implementation and optimization of the cascade classifier algorithm for UAV detection and tracking. Journal of Unmanned Vehicle Systems, 2019, 7, 296-311.	0.6	6

#	ARTICLE	IF	CITATIONS
19	Online vision-based inspection system for thermoplastic hot plate welding in window frame manufacturing. <i>Procedia CIRP</i> , 2020, 93, 1316-1321.	1.0	6
20	Design and simulation of an automated robotic machining cell for cross-laminated timber panels. <i>Procedia CIRP</i> , 2021, 100, 175-180.	1.0	6
21	Vision-based automated waste audits: a use case from the window manufacturing industry. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 7735-7749.	1.5	5
22	A Hybrid Method Based on Systems Approach to Enhance Experiential Learning in Mechatronic Education. , 2019, , .		4
23	A science mapping study on learning factories research. <i>Procedia Manufacturing</i> , 2020, 45, 84-89.	1.9	4
24	Quantifying the Impact of Inspection Processes on Production Lines through Stochastic Discrete-Event Simulation Modeling. <i>Modelling</i> , 2021, 2, 406-424.	0.8	4
25	Wireless Sensing Module for IoT Aquaponics Database Construction. <i>International Journal of Electronics and Electrical Engineering</i> , 2021, 9, 43-47.	0.2	3
26	Review on Energy Efficient Artificial Illumination in Aquaponics. , 2022, 2, 100015.		3
27	Vision-Based Damage Localization Method for an Autonomous Robotic Laser Cladding Process. <i>Procedia CIRP</i> , 2021, 104, 827-832.	1.0	2
28	AllFactory: An Aquaponics 4.0 Transdisciplinary Educational and Applied Research Learning Factory at the University of Alberta. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1