

# Rafael A Rojas

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

23  
papers

260  
citations

10  
h-index

15  
g-index

25  
ext. papers

342  
ext. citations

2.4  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
23	On the Methodologies to Compute Minimum Jerk Trajectories and Their Application in Collaborative Robotics. <i>Mechanisms and Machine Science</i> , <b>2022</b> , 589-596	0.3	
22	Automatic Planning of Psychologically Less-Stressful Trajectories in Collaborative Workstations: An Integrated Toolbox for Unskilled Users. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , <b>2021</b> , 118-126	0.6	1
21	Mechatronic Re-Design of a Manual Assembly Workstation into a Collaborative One for Wire Harness Assemblies. <i>Robotics</i> , <b>2021</b> , 10, 43	2.8	4
20	Research Fields and Challenges to implement Cyber-Physical Production Systems in SMEs: A Literature Review. <i>Chiang Mai University Journal of Natural Sciences</i> , <b>2021</b> , 20,	1.2	1
19	Designing Fast and Smooth Trajectories in Collaborative Workstations. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 1700-1706	4.2	2
18	Combining safety and speed in collaborative assembly systems – An approach to time optimal trajectories for collaborative robots. <i>Procedia CIRP</i> , <b>2021</b> , 97, 308-312	1.8	3
17	A Maturity Level-Based Assessment Tool to Enhance the Implementation of Industry 4.0 in Small and Medium-Sized Enterprises. <i>Sustainability</i> , <b>2020</b> , 12, 3559	3.6	27
16	Implementation of a Laboratory Case Study for Intuitive Collaboration Between Man and Machine in SME Assembly <b>2020</b> , 335-382		10
15	A Multicriteria Motion Planning Approach for Combining Smoothness and Speed in Collaborative Assembly Systems. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 5086	2.6	10
14	An agile scheduling and control approach in ETO construction supply chains. <i>Computers in Industry</i> , <b>2019</b> , 112, 103122	11.6	20
13	A human-in-the-loop cyber-physical system for collaborative assembly in smart manufacturing. <i>Procedia CIRP</i> , <b>2019</b> , 81, 600-605	1.8	25
12	A Variational Approach to Minimum-Jerk Trajectories for Psychological Safety in Collaborative Assembly Stations. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 823-829	4.2	20
11	From a literature review to a conceptual framework of enablers for smart manufacturing control. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 104, 517-533	3.2	26
10	Object-Centered Teleoperation of Mobile Manipulators With Remote Center of Motion Constraint. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 1745-1752	4.2	6
9	Optimal Design for the Passive Control of Vibration Based on Limit Cycles. <i>Shock and Vibration</i> , <b>2019</b> , 2019, 1-11	1.1	4
8	Smart Data Analytics in SME Manufacturing – An Axiomatic Design based Conceptual Framework. <i>MATEC Web of Conferences</i> , <b>2019</b> , 301, 00018	0.3	2
7	An approach to optimal semi-active control of vibration energy harvesting based on MEMS. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 107, 291-316	7.8	19

6	Smart Shopfloor Management. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2018</b> , 113, 17-21	0.5	8
5	Vernetzung in Cyber-Physischen Produktionssystemen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , <b>2018</b> , 113, 165-169	0.5	
4	Application of Axiomatic Design for the Design of a Safe Collaborative Human-Robot Assembly Workplace. <i>MATEC Web of Conferences</i> , <b>2018</b> , 223, 01003	0.3	12
3	Axiomatic Design based Design of a Software Prototype for Smart Shopfloor Management. <i>MATEC Web of Conferences</i> , <b>2018</b> , 223, 01012	0.3	4
2	Enabling Connectivity of Cyber-physical Production Systems: A Conceptual Framework. <i>Procedia Manufacturing</i> , <b>2017</b> , 11, 822-829	1.5	35
1	Simulation Based Validation of Supply Chain Effects through ICT enabled Real-time-capability in ETO Production Planning. <i>Procedia Manufacturing</i> , <b>2017</b> , 11, 846-853	1.5	21