

# Jorge Pomares

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

1,031  
citations

567281

15  
h-index

454955

30  
g-index

71  
all docs

71  
docs citations

71  
times ranked

896  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and application of an immersive virtual reality system to enhance emotional skills for children with autism spectrum disorders. <i>Computers and Education</i> , 2016, 98, 192-205.	8.3	148
2	Automatic PC disassembly for component recovery. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 23, 39-46.	3.0	84
3	Inclusion of immersive virtual learning environments and visual control systems to support the learning of students with Asperger syndrome. <i>Computers and Education</i> , 2013, 62, 88-101.	8.3	74
4	A Survey on FPGA-Based Sensor Systems: Towards Intelligent and Reconfigurable Low-Power Sensors for Computer Vision, Control and Signal Processing. <i>Sensors</i> , 2014, 14, 6247-6278.	3.8	71
5	Flexible multi-sensorial system for automatic disassembly using cooperative robots. <i>International Journal of Computer Integrated Manufacturing</i> , 2007, 20, 757-772.	4.6	58
6	Virtual disassembly of products based on geometric models. <i>Computers in Industry</i> , 2004, 55, 1-14.	9.9	57
7	Experiences on using Arduino for laboratory experiments of Automatic Control and Robotics. <i>IFAC-PapersOnLine</i> , 2015, 48, 105-110.	0.9	52
8	Control Framework for Dexterous Manipulation Using Dynamic Visual Servoing and Tactile Sensorsâ€™ Feedback. <i>Sensors</i> , 2014, 14, 1787-1804.	3.8	45
9	Direct image-based visual servoing of free-floating space manipulators. <i>Aerospace Science and Technology</i> , 2016, 55, 1-9.	4.8	35
10	Fast geometry-based computation of grasping points on three-dimensional point clouds. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141983184.	2.1	30
11	Movement-Flow-Based Visual Servoing and Force Control Fusion for Manipulation Tasks in Unstructured Environments. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2005, 35, 4-15.	2.9	27
12	Nonlinear Optimal Control for the Wheeled Inverted Pendulum System. <i>Robotica</i> , 2020, 38, 29-47.	1.9	21
13	Java software platform for the development of advanced robotic virtual laboratories. <i>Computer Applications in Engineering Education</i> , 2013, 21, E14.	3.4	19
14	FPGA-based architecture for direct visual control robotic systems. <i>Mechatronics</i> , 2016, 39, 204-216.	3.3	19
15	Survey of Visual and Force/Tactile Control of Robots for Physical Interaction in Spain. <i>Sensors</i> , 2009, 9, 9689-9733.	3.8	18
16	Automatic robotic tasks in unstructured environments using an image path tracker. <i>Control Engineering Practice</i> , 2009, 17, 597-608.	5.5	15
17	Dynamic Visual Servoing With Chaos Control for Redundant Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 423-431.	5.8	15
18	Adaptive Visual Servoing by Simultaneous Camera Calibration. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	14

#	ARTICLE	IF	CITATIONS
19	A Robust Approach to Control Robot Manipulators by Fusing Visual and Force Information. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 48, 437-456.	3.4	14
20	Using Geometry to Detect Grasping Points on 3D Unknown Point Cloud. , 2017, , .		14
21	FPGA-based visual control system using dynamic perceptibility. Robotics and Computer-Integrated Manufacturing, 2016, 41, 13-22.	9.9	12
22	Concurrent image-based visual servoing with adaptive zooming for non-cooperative rendezvous maneuvers. Advances in Space Research, 2018, 61, 862-878.	2.6	11
23	Bibliometric indicators in the study of Asperger syndrome between 1990 and 2014. Scientometrics, 2016, 109, 377-388.	3.0	10
24	Optimal Image-Based Guidance of Mobile Manipulators using Direct Visual Servoing. Electronics (Switzerland), 2019, 8, 374.	3.1	10
25	A Multi-Sensorial Hybrid Control for Robotic Manipulation in Human-Robot Workspaces. Sensors, 2011, 11, 9839-9862.	3.8	9
26	Visual Control of Robots Using Range Images. Sensors, 2010, 10, 7303-7322.	3.8	8
27	Analysis and Adaptation of Integration Time in PMD Camera for Visual Servoing. , 2010, , .		8
28	Web-Based Monitoring and Control of Industrial Processes Used for Control Education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 162-167.	0.4	8
29	Nonlinear optimal control for a spherical rolling robot. International Journal of Intelligent Robotics and Applications, 2019, 3, 221-237.	2.8	8
30	Nonlinear optimal control for multi-DOF electro-hydraulic robotic manipulators. IET Cyber-Systems and Robotics, 2020, 2, 96-106.	1.8	8
31	Direct Visual Servoing to Track Trajectories in Human-Robot Cooperation. International Journal of Advanced Robotic Systems, 2011, 8, 44.	2.1	7
32	Direct visual servoing framework based on optimal control for redundant joint structures. International Journal of Precision Engineering and Manufacturing, 2015, 16, 267-274.	2.2	7
33	ARMIA: A Sensorized Arm Wearable for Motor Rehabilitation. Biosensors, 2022, 12, 469.	4.7	7
34	<title>Disassembly movements for geometrical objects through heuristic methods</title>. , 2002, 4569, 71.		6
35	Improving detection of surface discontinuities in visual-force control systems. Image and Vision Computing, 2008, 26, 1435-1447.	4.5	6
36	A cooperative robotic system based on multiple sensors to construct metallic structures. International Journal of Advanced Manufacturing Technology, 2009, 45, 616-630.	3.0	6

#	ARTICLE	IF	CITATIONS
37	Dynamic visual servo control of a 4-axis joint tool to track image trajectories during machining complex shapes. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 261-270.	9.9	6
38	A Nonlinear Optimal Control Approach for a Lower-Limb Robotic Exoskeleton. <i>International Journal of Humanoid Robotics</i> , 2020, 17, 2050018.	1.1	6
39	Optimal control for robot-hand manipulation of an object using dynamic visual servoing. , 2014, , .		5
40	Visual Servoing in Robotics. <i>Electronics (Switzerland)</i> , 2019, 8, 1298.	3.1	5
41	A nonlinear optimal control approach for underactuated power-line inspection robots. <i>Robotica</i> , 2022, 40, 1979-2009.	1.9	5
42	A new time-independent image path tracker to guide robots using visual servoing. , 2007, , .		4
43	Visual servoing path tracking for safe human-robot interaction. , 2009, , .		4
44	Direct visual servo control of a robot to track trajectories in supervision tasks. , 2010, , .		4
45	Direct visual servoing and interaction control for a two-arms on-orbit servicing spacecraft. <i>Acta Astronautica</i> , 2022, 192, 368-378.	3.2	4
46	Practical experiences using RobUALab.ejs: a virtual and remote laboratory for Robotics e-learning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010, 42, 1-6.	0.4	3
47	Evaluation of Optimal Vibrotactile Feedback for Force-Controlled Upper Limb Myoelectric Prostheses. <i>Sensors</i> , 2019, 19, 5209.	3.8	3
48	Nonlinear optimal control for the 3-DOF laboratory helicopter. , 2020, , .		3
49	Visual - Force Control and Structured Light Fusion to Improve Recognition of Discontinuities in Surfaces. , 2006, , .		2
50	Spacecraft visual servoing with adaptive zooming for non-cooperative rendezvous. , 2018, , .		2
51	Image-Based Visual Servoing Control for Spacecraft Formation Flying. , 2020, , .		2
52	Trajectory Optimization and Control of a Free-Floating Two-Arm Humanoid Robot. <i>Journal of Guidance, Control, and Dynamics</i> , 2022, 45, 1661-1675.	2.8	2
53	Time Independent Tracking Using 2-D Movement Flow-Based Visual Servoing. , 0, , .		1
54	Multi-Sensorial System for the Generation of Disassembly Trajectories. , 2006, , .		1

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55	Visual control of a multi-robot coupled system: Application to collision avoidance in human-robot interaction. , 2011, , .		1
56	FPGA-based framework for dynamic visual servoing of robot manipulators. , 2015, , .		1
57	Control of Redundant Joint Structures Using Image Information During the Tracking of Non-Smooth Trajectories. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 33-46.	3.4	1
58	A nonlinear optimal control approach for the spherical robot. , 2018, , .		1
59	Nonlinear Optimal Control for Underactuated Offshore Cranes. , 2020, , .		1
60	Event-Based Visual Servoing with Featuresâ€™ Prediction. Advances in Intelligent Systems and Computing, 2014, , 679-691.	0.6	1
61	DEVELOPMENT OF HYBRID LABORATORIES OF INDUSTRIAL SYSTEMS FOR INTERACTIVE LEARNING OF AUTOMATION AND CONTROL. , 2019, , .		1
62	Movement Flow-Based Visual Servoing for Tracking Trajectories with Occlusions. IEEE Latin America Transactions, 2004, 2, 142-148.	1.6	0
63	Direct visual servoing of a redundant robot with chaos compensation. , 2013, , .		0
64	FPGA-based visual control of robot manipulators using dynamic perceptibility. , 2015, , .		0
65	New Educational Challenges and Innovations: Students with Disability in Immersive Learning Environments. , 0, , .		0
66	Image-based control of satellite-mounted robot manipulators. , 2016, , .		0
67	A nonlinear optimal control method for the ballbot autonomous vehicle. , 2020, , .		0
68	Geometrically Finding Best Grasping Points on Single Novel 3D Point Cloud. Lecture Notes in Electrical Engineering, 2020, , 497-512.	0.4	0
69	An Uncalibrated Approach to Track Trajectories using Visualâ€™Force Control. , 2007, , 103-108.		0
70	Image Motion Estimator to Track Trajectories Specified With Respect to Moving Objects. , 2008, , 207-217.		0