

# 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  | A nonlinear optimal control approach for underactuated power-line inspection robots. <i>Robotica</i> , 2022, 40, 1979-2009.   | 1.9 | 5         |
| 2  | 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         |
| 3  | 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         |
| 4  | ARMIA: A Sensorized Arm Wearable for Motor Rehabilitation. <i>Biosensors</i> , 2022, 12, 469.   | 4.7 | 7         |
| 5  | Nonlinear Optimal Control for the Wheeled Inverted Pendulum System. <i>Robotica</i> , 2020, 38, 29-47.  | 1.9 | 21        |
| 6  | Nonlinear optimal control for the 3-DOF laboratory helicopter. , 2020, , .  |     | 3         |
| 7  | A nonlinear optimal control method for the ballbot autonomous vehicle. , 2020, , .  |     | 0         |
| 8  | Nonlinear Optimal Control for Underactuated Offshore Cranes. , 2020, , .  |     | 1         |
| 9  | Image-Based Visual Servoing Control for Spacecraft Formation Flying. , 2020, , .  |     | 2         |
| 10 | A Nonlinear Optimal Control Approach for a Lower-Limb Robotic Exoskeleton. <i>International Journal of Humanoid Robotics</i> , 2020, 17, 2050018.                           | 1.1 | 6         |
| 11 | Nonlinear optimal control for multi-DOF electro-hydraulic robotic manipulators. <i>IET Cyber-Systems and Robotics</i> , 2020, 2, 96-106.                                    | 1.8 | 8         |
| 12 | Geometrically Finding Best Grasping Points on Single Novel 3D Point Cloud. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 497-512.                                | 0.4 | 0         |
| 13 | Optimal Image-Based Guidance of Mobile Manipulators using Direct Visual Servoing. <i>Electronics (Switzerland)</i> , 2019, 8, 374.  | 3.1 | 10        |
| 14 | 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        |
| 15 | Visual Servoing in Robotics. <i>Electronics (Switzerland)</i> , 2019, 8, 1298.  | 3.1 | 5         |
| 16 | Evaluation of Optimal Vibrotactile Feedback for Force-Controlled Upper Limb Myoelectric Prostheses. <i>Sensors</i> , 2019, 19, 5209.  | 3.8 | 3         |
| 17 | Nonlinear optimal control for a spherical rolling robot. <i>International Journal of Intelligent Robotics and Applications</i> , 2019, 3, 221-237.                          | 2.8 | 8         |
| 18 | DEVELOPMENT OF HYBRID LABORATORIES OF INDUSTRIAL SYSTEMS FOR INTERACTIVE LEARNING OF AUTOMATION AND CONTROL. , 2019, , .  |     | 1         |

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|----|---|-----|-----------|
| 19 | Concurrent image-based visual servoing with adaptive zooming for non-cooperative rendezvous maneuvers. <i>Advances in Space Research</i> , 2018, 61, 862-878.   | 2.6 | 11        |
| 20 | A nonlinear optimal control approach for the spherical robot. , 2018, , .   |     | 1         |
| 21 | Spacecraft visual servoing with adaptive zooming for non-cooperative rendezvous. , 2018, , .  |     | 2         |
| 22 | Using Geometry to Detect Grasping Points on 3D Unknown Point Cloud. , 2017, , .   |     | 14        |
| 23 | FPGA-based visual control system using dynamic perceptibility. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016, 41, 13-22.   | 9.9 | 12        |
| 24 | Bibliometric indicators in the study of Asperger syndrome between 1990 and 2014. <i>Scientometrics</i> , 2016, 109, 377-388.  | 3.0 | 10        |
| 25 | 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       |
| 26 | Image-based control of satellite-mounted robot manipulators. , 2016, , .  |     | 0         |
| 27 | FPGA-based architecture for direct visual control robotic systems. <i>Mechatronics</i> , 2016, 39, 204-216.   | 3.3 | 19        |
| 28 | Direct image-based visual servoing of free-floating space manipulators. <i>Aerospace Science and Technology</i> , 2016, 55, 1-9.  | 4.8 | 35        |
| 29 | FPGA-based visual control of robot manipulators using dynamic perceptibility. , 2015, , .   |     | 0         |
| 30 | FPGA-based framework for dynamic visual servoing of robot manipulators. , 2015, , .   |     | 1         |
| 31 | Experiences on using Arduino for laboratory experiments of Automatic Control and Robotics. <i>IFAC-PapersOnLine</i> , 2015, 48, 105-110.  | 0.9 | 52        |
| 32 | Direct visual servoing framework based on optimal control for redundant joint structures. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 267-274.                      | 2.2 | 7         |
| 33 | Control of Redundant Joint Structures Using Image Information During the Tracking of Non-Smooth Trajectories. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015, 78, 33-46. | 3.4 | 1         |
| 34 | Optimal control for robot-hand manipulation of an object using dynamic visual servoing. , 2014, , .   |     | 5         |
| 35 | Control Framework for Dexterous Manipulation Using Dynamic Visual Servoing and Tactile Sensorsâ€™ Feedback. <i>Sensors</i> , 2014, 14, 1787-1804.   | 3.8 | 45        |
| 36 | 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        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Dynamic Visual Servoing With Chaos Control for Redundant Robots. IEEE/ASME Transactions on Mechatronics, 2014, 19, 423-431.   | 5.8 | 15        |
| 38 | Event-Based Visual Servoing with Featuresâ€™ Prediction. Advances in Intelligent Systems and Computing, 2014, , 679-691.  | 0.6 | 1         |
| 39 | Java software platform for the development of advanced robotic virtual laboratories. Computer Applications in Engineering Education, 2013, 21, E14.   | 3.4 | 19        |
| 40 | Direct visual servoing of a redundant robot with chaos compensation. , 2013, , .  |     | 0         |
| 41 | Inclusion of immersive virtual learning environments and visual control systems to support the learning of students with Asperger syndrome. Computers and Education, 2013, 62, 88-101.          | 8.3 | 74        |
| 42 | Dynamic visual servo control of a 4-axis joint tool to track image trajectories during machining complex shapes. Robotics and Computer-Integrated Manufacturing, 2013, 29, 261-270.             | 9.9 | 6         |
| 43 | 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         |
| 44 | Visual control of a multi-robot coupled system: Application to collision avoidance in human-robot interaction. , 2011, , .  |     | 1         |
| 45 | Direct Visual Servoing to Track Trajectories in Human-Robot Cooperation. International Journal of Advanced Robotic Systems, 2011, 8, 44.  | 2.1 | 7         |
| 46 | A Multi-Sensorial Hybrid Control for Robotic Manipulation in Human-Robot Workspaces. Sensors, 2011, 11, 9839-9862.  | 3.8 | 9         |
| 47 | Practical experiences using RobUJALab.ejs: a virtual and remote laboratory for Robotics e-learning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 1-6. | 0.4 | 3         |
| 48 | Visual Control of Robots Using Range Images. Sensors, 2010, 10, 7303-7322.  | 3.8 | 8         |
| 49 | Analysis and Adaptation of Integration Time in PMD Camera for Visual Servoing. , 2010, , .  |     | 8         |
| 50 | Direct visual servo control of a robot to track trajectories in supervision tasks. , 2010, , .  |     | 4         |
| 51 | Survey of Visual and Force/Tactile Control of Robots for Physical Interaction in Spain. Sensors, 2009, 9, 9689-9733.  | 3.8 | 18        |
| 52 | 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         |
| 53 | Automatic robotic tasks in unstructured environments using an image path tracker. Control Engineering Practice, 2009, 17, 597-608.  | 5.5 | 15        |
| 54 | Visual servoing path tracking for safe human-robot interaction. , 2009, , .   |     | 4         |

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|----|--|-----|-----------|
| 55 | Improving detection of surface discontinuities in visualâ€‘force control systems. Image and Vision Computing, 2008, 26, 1435-1447.   | 4.5 | 6         |
| 56 | Image Motion Estimator to Track Trajectories Specified With Respect to Moving Objects. , 2008, , 207-217.  |     | 0         |
| 57 | A new time-independent image path tracker to guide robots using visual servoing. , 2007, , .   |     | 4         |
| 58 | Flexible multi-sensorial system for automatic disassembly using cooperative robots. International Journal of Computer Integrated Manufacturing, 2007, 20, 757-772.   | 4.6 | 58        |
| 59 | Adaptive Visual Servoing by Simultaneous Camera Calibration. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .   | 0.0 | 14        |
| 60 | 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        |
| 61 | An Uncalibrated Approach to Track Trajectories using Visualâ€‘Force Control. , 2007, , 103-108.  |     | 0         |
| 62 | Multi-Sensorial System for the Generation of Disassembly Trajectories. , 2006, , .   |     | 1         |
| 63 | Visual - Force Control and Structured Light Fusion to Improve Recognition of Discontinuities in Surfaces. , 2006, , .  |     | 2         |
| 64 | Movement-Flow-Based Visual Servoing and Force Control Fusion for Manipulation Tasks in Unstructured Environments. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 4-15. | 2.9 | 27        |
| 65 | Movement Flow-Based Visual Servoing for Tracking Trajectories with Occlusions. IEEE Latin America Transactions, 2004, 2, 142-148.  | 1.6 | 0         |
| 66 | Virtual disassembly of products based on geometric models. Computers in Industry, 2004, 55, 1-14.  | 9.9 | 57        |
| 67 | Automatic PC disassembly for component recovery. International Journal of Advanced Manufacturing Technology, 2004, 23, 39-46.  | 3.0 | 84        |
| 68 | <title>Disassembly movements for geometrical objects through heuristic methods</title>. , 2002, 4569, 71.  |     | 6         |
| 69 | Time Independent Tracking Using 2-D Movement Flow-Based Visual Servoing. , 0, , .  |     | 1         |
| 70 | New Educational Challenges and Innovations: Students with Disability in Immersive Learning Environments. , 0, , .  |     | 0         |