

# Antônio P Moreira

## List of Publications by Year in descending order

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151  
papers

2,199  
citations

304743

22  
h-index

330143

37  
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168  
all docs

168  
docs citations

168  
times ranked

1780  
citing authors

#	ARTICLE	IF	CITATIONS
1	A kinesthetic teaching approach for automating micropipetting repetitive tasks. International Journal of Advanced Manufacturing Technology, 2022, 118, 651-663.	3.0	1
2	Augmented Reality for Human-Robot Collaboration and Cooperation in Industrial Applications: A Systematic Literature Review. Sensors, 2022, 22, 2725.	3.8	29
3	Active Perception Fruit Harvesting Robots - A Systematic Review. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, .	3.4	6
4	A Survey of high-level teleoperation, monitoring and task assignment to Autonomous Mobile Robots. , 2022, , .		2
5	OptiOdom: a Generic Approach for Odometry Calibration of Wheeled Mobile Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, .	3.4	2
6	Gerber File Parsing for Conversion to Bitmap Image-The VINCI7D Case Study. IEEE Access, 2022, 10, 69659-69679.	4.2	0
7	Reconfigurable Grasp Planning Pipeline with Grasp Synthesis and Selection Applied to Picking Operations in Aerospace Factories. Robotics and Computer-Integrated Manufacturing, 2021, 67, 102032.	9.9	8
8	Robust human position estimation in cooperative robotic cells. Robotics and Computer-Integrated Manufacturing, 2021, 67, 102035.	9.9	24
9	Autonomous wheelchair for patient's transportation on healthcare institutions. SN Applied Sciences, 2021, 3, 354.	2.9	13
10	Advances in Forest Robotics: A State-of-the-Art Survey. Robotics, 2021, 10, 53.	3.5	39
11	Advances in Agriculture Robotics: A State-of-the-Art Review and Challenges Ahead. Robotics, 2021, 10, 52.	3.5	130
12	Low-Cost and Reduced-Size 3D-Cameras Metrological Evaluation Applied to Industrial Robotic Welding Operations. , 2021, , .		0
13	Improving a position controller for a robotic joint. , 2021, , .		4
14	Digital Twin based What-if Simulation for Energy Management. , 2021, , .		12
15	Evaluating the Single-Shot MultiBox Detector and YOLO Deep Learning Models for the Detection of Tomatoes in a Greenhouse. Sensors, 2021, 21, 3569.	3.8	72
16	Accuracy and Repeatability Tests on HoloLens 2 and HTC Vive. Multimodal Technologies and Interaction, 2021, 5, 47.	2.5	24
17	Smarter Robotic Sprayer System for Precision Agriculture. Electronics (Switzerland), 2021, 10, 2061.	3.1	15
18	Programming Robots by Demonstration Using Augmented Reality. Sensors, 2021, 21, 5976.	3.8	15

#	ARTICLE	IF	CITATIONS
19	Robotic grasping: from wrench space heuristics to deep learning policies. Robotics and Computer-Integrated Manufacturing, 2021, 71, 102176.	9.9	20
20	Recommendation System using Reinforcement Learning for What-If Simulation in Digital Twin. , 2021, , .		7
21	Human Detector Smart Sensor for Autonomous Disinfection Mobile Robot. Communications in Computer and Information Science, 2021, , 171-186.	0.5	0
22	New Approach for Beacons Based Mobile Robot Localization using Kalman Filters. Procedia Manufacturing, 2020, 51, 512-519.	1.9	5
23	Omnidirectional robot modeling and simulation. , 2020, , .		2
24	Enhanced Performance Real-Time Industrial Robot Programming by Demonstration using Stereoscopic Vision and an IMU sensor. , 2020, , .		1
25	Driverless Wheelchair for Patient's On-Demand Transportation in Hospital Environment*. , 2020, , .		3
26	Recursive Approach of Sub-Optimal Excitation Signal Generation and Optimal Parameter Estimation. International Journal of Control, Automation and Systems, 2020, 18, 1965-1974.	2.7	6
27	Development of an Autonomous Mobile Towing Vehicle for Logistic Tasks. Advances in Intelligent Systems and Computing, 2020, , 669-681.	0.6	5
28	Autonomous Robot Navigation for Automotive Assembly Task: An Industry Use-Case. Advances in Intelligent Systems and Computing, 2020, , 645-656.	0.6	0
29	Boccia game simulator: <scp>S</scp>erious game adapted for people with disabilities. Expert Systems, 2019, 36, e12299.	4.5	4
30	A* search algorithm optimization path planning in mobile robots scenarios. AIP Conference Proceedings, 2019, , .	0.4	8
31	New Approach to Supervise Localization Algorithms. , 2019, , .		0
32	Collaborative Welding System using BIM for Robotic Reprogramming and Spatial Augmented Reality. Automation in Construction, 2019, 106, 102825.	9.8	61
33	Optimal automatic path planner and design for high redundancy robotic systems. Industrial Robot, 2019, 47, 131-139.	2.1	5
34	Map-Matching Algorithms for Robot Self-Localization: A Comparison Between Perfect Match, Iterative Closest Point and Normal Distributions Transform. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 533-546.	3.4	61
35	A Comparison Procedure for IMUs Performance. Lecture Notes in Computer Science, 2019, , 331-344.	1.3	0
36	Persistently-exciting signal generation for Optimal Parameter Estimation of constrained nonlinear dynamical systems. ISA Transactions, 2018, 77, 231-241.	5.7	17

#	ARTICLE	IF	CITATIONS
37	Collision Avoidance for Multi-robot Systems with Coincident Paths Based on Fictitious Collision Points Using Nonlinear Formulation. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 60-71.	0.6	0
38	Soft Computing Optimization for the Biomass Supply Chain Operational Planning. , 2018, , .		4
39	Flexible Work Cell Simulator Using Digital Twin Methodology for Highly Complex Systems in Industry 4.0. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 541-552.	0.6	12
40	Predictive model based architecture for energy biomass supply chains tactical decisions * *This work was supported by the FCT - Funda�o para a Ci�ncia e Tecnologia through the PhD Studentship SFRH/BD/98032/2013, program POPH - Programa Operacional Potencial Humano and FSE - Fundo Social Europeu.. <i>IFAC-PapersOnLine</i> , 2017, 50, 7681-7686.	0.9	0
41	Model Predictive Control Applied to a Supply Chain Management Problem. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 167-177.	0.4	3
42	Model Predictive Control of a Conveyor-Based Drying Process Applied to Cork Stoppers. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 617-627.	0.4	0
43	Visual motion perception for mobile robots through dense optical flow fields. <i>Robotics and Autonomous Systems</i> , 2017, 87, 1-14.	5.1	11
44	A Multilayer Model Predictive Control Methodology Applied to a Biomass Supply Chain Operational Level. <i>Complexity</i> , 2017, 2017, 1-10.	1.6	6
45	Realistic Boccia Game Simulator Adapted for People with Disabilities or Motor Disorders: Architecture and Preliminary Usability Study. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 165-176.	0.6	3
46	Autonomous Interactive Object Manipulation and Navigation Capabilities for an Intelligent Wheelchair. <i>Lecture Notes in Computer Science</i> , 2017, , 473-485.	1.3	3
47	Stereo-based real-time 6-DoF work tool tracking for robot programming by demonstration. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 57-69.	3.0	28
48	Preface for the special issue on robotics in smart manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 1-1.	3.0	35
49	2D Cloud Template Matching - A Comparison between Iterative Closest Point and Perfect Match. , 2016, , .		5
50	Multimodal Interaction and Serious Game for Assistive Robotic Devices in a Simulated Environment. , 2016, , .		1
51	Multi-Robot nonlinear model predictive formation control: the obstacle avoidance problem. <i>Robotica</i> , 2016, 34, 549-567.	1.9	27
52	Modelling a biomass supply chain through discrete-event simulation—This work was supported by the FCT - Funda�o para a Ci�ncia e Tecnologia through the PhD Studentship SFRH/BD/98032/2013, program POPH - Programa Operacional Potencial Humano and FSE - Fundo Social Europeu.. <i>IFAC-PapersOnLine</i> , 2016, 49, 84-89.	0.9	13
53	The SPIDERobot: A Cable-Robot System for On-site Construction in Architecture. , 2016, , 230-239.		17
54	Robust mobile robot localization based on a security laser: an industry case study. <i>Industrial Robot</i> , 2016, 43, 596-606.	2.1	9

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55	Multiple manipulators path planning using double A*. Industrial Robot, 2016, 43, 657-664.	2.1	9
56	Incremental texture mapping for autonomous driving. Robotics and Autonomous Systems, 2016, 84, 113-128.	5.1	7
57	Incremental scenario representations for autonomous driving using geometric polygonal primitives. Robotics and Autonomous Systems, 2016, 83, 312-325.	5.1	8
58	Towards a Reliable Robot for Steep Slope Vineyards Monitoring. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 83, 429-444.	3.4	45
59	Assessment of Robotic Picking Operations Using a 6 Axis Force/Torque Sensor. IEEE Robotics and Automation Letters, 2016, 1, 768-775.	5.1	12
60	Integrated tasks assignment and routing for the estimation of the optimal number of AGVS. International Journal of Advanced Manufacturing Technology, 2016, 82, 719-736.	3.0	56
61	WirelessSyncroVision: Wireless synchronization for industrial stereoscopic systems. International Journal of Advanced Manufacturing Technology, 2016, 82, 909-919.	3.0	7
62	Online Robot Teleoperation Using Human Hand Gestures: A Case Study for Assembly Operation. Advances in Intelligent Systems and Computing, 2016, , 93-104.	0.6	5
63	Machines and control systems for friction stir welding: A review. Materials and Design, 2016, 90, 256-265.	7.0	87
64	Coordination of Marine Robots Under Tracking Errors and Communication Constraints. IEEE Journal of Oceanic Engineering, 2016, 41, 27-39.	3.8	6
65	Modular pick and place simulator using ROS framework. , 2015, , .		0
66	Special Issue Robótica 2014. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 363-364.	3.4	0
67	Nonlinear Model Predictive Formation Control: An Iterative Weighted Tuning Approach. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 441-454.	3.4	16
68	Evaluation of Depth Sensors for Robotic Applications. , 2015, , .		18
69	Development of a 3D model based part recognition system for industrial applications: Main challenges. , 2015, , .		2
70	Robust Mobile Robot Localization Based on Security Laser Scanner. , 2015, , .		4
71	Kalman filter-based yaw angle estimation by fusing inertial and magnetic sensing: a case study using low cost sensors. Sensor Review, 2015, 35, 244-250.	1.8	15
72	Cable robot for non-standard architecture and construction: A dynamic positioning system. , 2015, , .		5

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73	Time enhanced A*: Towards the development of a new approach for Multi-Robot Coordination. , 2015, , .		12
74	Formation control driven by cooperative object tracking. Robotics and Autonomous Systems, 2015, 63, 68-79.	5.1	28
75	A Localization Method Based on Map-Matching and Particle Swarm Optimization. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 313-326.	3.4	32
76	Homing a robot with range-only measurements under unknown drifts. Robotics and Autonomous Systems, 2015, 67, 3-13.	5.1	16
77	Comprehensive Review of the Dispatching, Scheduling and Routing of AGVs. Lecture Notes in Electrical Engineering, 2015, , 505-514.	0.4	15
78	Streaming Image Sequences for Vision-Based Mobile Robots. Lecture Notes in Electrical Engineering, 2015, , 637-646.	0.4	3
79	Framework Using ROS and SimTwo Simulator for Realistic Test of Mobile Robot Controllers. Lecture Notes in Electrical Engineering, 2015, , 751-759.	0.4	6
80	Intelligent Wheelchair Driving: Bridging the Gap Between Virtual and Real Intelligent Wheelchairs. Lecture Notes in Computer Science, 2015, , 445-456.	1.3	14
81	Overview of MPC applications in supply chains: Potential use and benefits in the management of forest-based supply chains. Forest Systems, 2015, 24, e039.	0.3	6
82	A Centralized Approach to the Coordination of Marine Robots. Lecture Notes in Electrical Engineering, 2015, , 567-576.	0.4	0
83	Detecting Motion Patterns in Dense Flow Fields: Euclidean Versus Polar Space. Lecture Notes in Computer Science, 2015, , 487-492.	1.3	0
84	Increasing flexibility in footwear industrial cells. , 2014, , .		2
85	A visual place recognition procedure with a Markov chain based filter. , 2014, , .		3
86	A Flow-based Motion Perception Technique for an Autonomous Robot System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 75, 475-492.	3.4	9
87	Unsupervised flow-based motion analysis for an autonomous moving system. Image and Vision Computing, 2014, 32, 391-404.	4.5	11
88	Iterative weighted tuning for a nonlinear model predictive formation control. , 2014, , .		2
89	New marker for real-time industrial robot programming by motion imitation. , 2014, , .		1
90	An architecture for visual motion perception of a surveillance-based autonomous robot. , 2014, , .		5

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91	Enhancing dynamic videos for surveillance and robotic applications: The robust bilateral and temporal filter. Signal Processing: Image Communication, 2014, 29, 80-95.	3.2	12
92	Object recognition and pose estimation for industrial applications: A cascade system. Robotics and Computer-Integrated Manufacturing, 2014, 30, 605-621.	9.9	20
93	Multi-Robot Systems Formation Control with Obstacle Avoidance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5703-5708.	0.4	10
94	Indoor Localization System based on Artificial Landmarks and Monocular Vision. Telkomnika (Telecommunication Computing Electronics and Control), 2014, 10, 609.	0.8	11
95	A set of novel modifications to improve algorithms from the A* family applied in mobile robotics. Journal of the Brazilian Computer Society, 2013, 19, 167-179.	1.3	4
96	Intelligent state changing applied to multi-robot systems. Robotics and Autonomous Systems, 2013, 61, 115-124.	5.1	16
97	Robot#x0040;factory: Localization method based on map-matching and Particle Swarm Optimization. , 2013, , .		1
98	Multi-robot nonlinear model predictive formation control: Moving target and target absence. Robotics and Autonomous Systems, 2013, 61, 1502-1515.	5.1	57
99	Perception-driven multi-robot formation control. , 2013, , .		19
100	IntellWheels: Intelligent wheelchair with user-centered design. , 2013, , .		10
101	Evaluation of sensors and algorithms for person detection for personal robots. , 2013, , .		1
102	Object recognition using laser range finder and machine learning techniques. Robotics and Computer-Integrated Manufacturing, 2013, 29, 12-22.	9.9	62
103	Self-localisation of indoor mobile robots using multi-hypotheses and a matching algorithm. Mechatronics, 2013, 23, 727-737.	3.3	16
104	Real-time and continuous hand gesture spotting: An approach based on artificial neural networks. , 2013, , .		50
105	Modeling and Simulation of the EMG30 Geared Motor with Encoder Resorting to SimTwo: The Official Robot@Factory Simulator. Lecture Notes in Mechanical Engineering, 2013, , 307-314.	0.4	9
106	Real-Time Tracking System for a Moored Oil Tanker: A Kalman Filter Approach. Lecture Notes in Mechanical Engineering, 2013, , 749-760.	0.4	1
107	Robotics in Smart Manufacturing. Communications in Computer and Information Science, 2013, , .	0.5	7
108	Fast 3D Map Matching Localisation Algorithm. Journal of Automation and Control Engineering, 2013, 1, 110-114.	0.3	15

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109	Revisiting Lucas-Kanade and Horn-Schunck. Journal of Computer Engineering and Informatics, 2013, 1, 23-29.	0.4	6
110	Robust and Fast Algorithm for Artificial Landmark Detection in an Industrial Environment. Journal of Automation and Control Engineering, 2013, 1, 156-159.	0.3	0
111	Towards Extraction of Topological Maps from 2D and 3D Occupancy Grids. Lecture Notes in Computer Science, 2013, , 307-318.	1.3	4
112	Humanoid Gait Optimization Resorting to an Improved Simulation Model. International Journal of Advanced Robotic Systems, 2013, 10, 67.	2.1	2
113	Global Localisation Algorithm from a Multiple Hypotheses Set. , 2012, , .		0
114	High-level robot programming based on CAD: dealing with unpredictable environments. Industrial Robot, 2012, 39, 294-303.	2.1	50
115	Localization of Mobile Robots Using an Extended Kalman Filter in a LEGO NXT. IEEE Transactions on Education, 2012, 55, 135-144.	2.4	40
116	A low-cost laser scanning solution for flexible robotic cells: spray coating. International Journal of Advanced Manufacturing Technology, 2012, 58, 1031-1041.	3.0	23
117	Development of an Omnidirectional Kick for a NAO Humanoid Robot. Lecture Notes in Computer Science, 2012, , 571-580.	1.3	13
118	A Generic Framework for Multi-robot Formation Control. Lecture Notes in Computer Science, 2012, , 294-305.	1.3	2
119	Indoor Localization System based on Artificial Landmarks and Monocular Vision. Telkomnika (Telecommunication Computing Electronics and Control), 2012, 10, .	0.8	0
120	Proposal of a new real-time cooperative challenge in mobile robotics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9836-9841.	0.4	1
121	IntellWheels: Modular development platform for intelligent wheelchairs. Journal of Rehabilitation Research and Development, 2011, 48, 1061.	1.6	42
122	Shop Floor Scheduling in a Mobile Robotic Environment. Lecture Notes in Computer Science, 2011, , 377-391.	1.3	4
123	Flexible Internal Logistics Based on AGV System's: A Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 248-255.	0.4	3
124	Shared control for obstacle avoidance in intelligent wheelchairs. , 2010, , .		16
125	Robot path simulation: a low cost solution based on CAD. , 2010, , .		11
126	HUMANOID LOW-LEVEL CONTROLLER DEVELOPMENT BASED ON A REALISTIC SIMULATION. International Journal of Humanoid Robotics, 2010, 07, 587-607.	1.1	3



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127	Attracting Students to Engineering: Using Intuitive HRIs for Educational Purposes. Communications in Computer and Information Science, 2010, , 250-257.	0.5	1
128	Anaesthesia Synchronization Software: Target Controlled Infusion system evaluation. , 2010, 2010, 6777-80.		0
129	High-level programming and control for industrial robotics: using a handheld accelerometer-based input device for gesture and posture recognition. Industrial Robot, 2010, 37, 137-147.	2.1	73
130	CAD-based off-line robot programming. , 2010, , .		44
131	CAD-based robot programming: The role of Fuzzy-PI force control in unstructured environments. , 2010, , .		6
132	IntellWheels MMI: A Flexible Interface for an Intelligent Wheelchair. Lecture Notes in Computer Science, 2010, , 296-307.	1.3	16
133	Fuzzy-PI Force Control for Industrial Robotics. Communications in Computer and Information Science, 2010, , 322-329.	0.5	6
134	Target controlled infusion algorithms for anesthesia: Theory vs practical implementation. , 2009, 2009, 6234-7.		3
135	Robust and real-time teaching of industrial robots for mass customisation manufacturing using stereoscopic vision. , 2009, , .		6
136	A nonlinear mobile robot modeling applied to a model predictive controller. , 2009, , .		1
137	Accelerometer-based control of an industrial robotic arm. , 2009, , .		64
138	Design of a mobile robot for RoboCup Middle Size League. , 2009, , .		4
139	Practical Approach of Modeling and Parameters Estimation for Omnidirectional Mobile Robots. IEEE/ASME Transactions on Mechatronics, 2009, 14, 377-381.	5.8	60
140	Concept and Design of the Intellwheels Platform for Developing Intelligent Wheelchairs. Lecture Notes in Electrical Engineering, 2009, , 191-203.	0.4	31
141	A nonlinear model predictive control strategy for trajectory tracking of a four-wheeled omnidirectional mobile robot. Optimal Control Applications and Methods, 2008, 29, 335-352.	2.1	19
142	Humanoid robot simulation with a joint trajectory optimized controller. , 2008, , .		2
143	Analysis of the Behavior of Moored Tankers. , 2008, , .		0
144	REALISTIC HUMANOID ROBOT SIMULATION WITH AN OPTIMIZED CONTROLLER: A POWER CONSUMPTION MINIMIZATION APPROACH. , 2008, , .		2

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145	A Nonlinear Model Predictive Control of an Omni-Directional Mobile Robot. , 2007, , .		13
146	TRAJECTORY TRACKING FOR OMNI-DIRECTIONAL MOBILE ROBOTS BASED ON RESTRICTIONS OF THE MOTOR'S VELOCITIES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 121-125.	0.4	9
147	ARCHITECTURE OF COOPERATION FOR MULTI-ROBOT SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 45-50.	0.4	0
148	MODEL'S PARAMETERS EXPERIMENTAL IDENTIFICATION OF A FOUR WHEELED OMNI-DIRECTIONAL MOBILE ROBOT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 230-235.	0.4	4
149	Architecture Control and Model Identification of a Omni-Directional Mobile Robot. , 2005, , .		3
150	Tracking and Identifying in Real Time the Robots of a F-180 Team. Lecture Notes in Computer Science, 2000, , 286-291.	1.3	4
151	5dpo-2000 Team Description. Lecture Notes in Computer Science, 2000, , 754-757.	1.3	2