Pires, Jn

List of Publications by Year
in descending order

79 papers	1,627 citations	361388 20 h-index	377849 34 g-index
80 all docs	80 docs citations	80 times ranked	1148 citing authors

#	Article	IF	Citations
1	The role of robotics in additive manufacturing: review of the AM processes and introduction of an intelligent system. Industrial Robot, 2022, 49, 311-331.	2.1	3
2	Industry 4.0 for Steel Construction: an Outlook. Ce/Papers, 2021, 4, 1730-1735.	0.3	0
3	A novel multi-brand robotic software interface for industrial additive manufacturing cells. Industrial Robot, 2020, 47, 581-592.	2.1	9
4	Development of a solution for adding a collaborative robot to an industrial AGV. Industrial Robot, 2020, 47, 723-735.	2.1	34
5	Implementation of a robot control architecture for additive manufacturing applications. Industrial Robot, 2019, 46, 73-82.	2.1	15
6	Advances in robotics for additive/hybrid manufacturing: robot control, speech interface and path planning. Industrial Robot, 2018, 45, 311-327.	2.1	26
7	Application of mixed reality in robot manipulator programming. Industrial Robot, 2018, 45, 784-793.	2.1	26
8	A novel friction stir welding robotic platform: welding polymeric materials. International Journal of Advanced Manufacturing Technology, 2016, 85, 37-46.	3.0	40
9	Industrial Robotics. Springer Handbooks, 2016, , 1385-1422.	0.6	65
10	Effect of friction stir welding parameters on morphology and strength of acrylonitrile butadiene styrene plate welds. Materials & Design, 2014, 58, 457-464.	5.1	106
11	New marker for real-time industrial robot programming by motion imitation. , 2014, , .		1
12	Morphology and strength of acrylonitrile butadiene styrene welds performed by robotic friction stir welding. Materials & Design, 2014, 64, 81-90.	5.1	65
13	An optimal fuzzy-PI force/motion controller to increase industrial robot autonomy. International Journal of Advanced Manufacturing Technology, 2013, 68, 435-441.	3.0	23
14	OmniClimbers: Omni-directional magnetic wheeled climbing robots for inspection of ferromagnetic structures. Robotics and Autonomous Systems, 2013, 61, 997-1007.	5.1	106
15	3-D position estimation from inertial sensing: Minimizing the error from the process of double integration of accelerations. , 2013, , .		24
16	Discretization and fitting of nominal data for autonomous robots. Expert Systems With Applications, 2013, 40, 1143-1151.	7.6	19
17	The ECHORD project proposals analysis â€“ Research profiles, collaboration patterns and research topic trends. Expert Systems With Applications, 2013, 40, 7132-7140.	7.6	4
18	Real-time and continuous hand gesture spotting: An approach based on artificial neural networks. , 2013, , .		50

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19	Haptic-Based Robot Teleoperation: Interacting with Real Environments. Intelligent Systems, Control and Automation: Science and Engineering, 2013, , 111-120.	0.5	0
20	Magnetic omnidirectional wheels for climbing robots. , 2013, , .		10
21	OmniClimber-II: An omnidirectional climbing robot with high maneuverability and flexibility to adapt to non-flat surfaces. , 2013, , .		7
22	On the use of robotics in implant dentistry research. , 2012, , .		0
23	Highâ€level robot programming based on CAD: dealing with unpredictable environments. Industrial Robot, 2012, 39, 294-303.	2.1	50
24	Separation of concerns on the orchestration of operations in flexible manufacturing. Assembly Automation, 2012, 32, 38-50.	1.7	6
25	IMPROVE simulation tool: Integrating heterogeneous simulation modules for semiconductor manufacturing processes. , 2012, , .		1
26	Research trends and highlights â€“ manufacturing challenge. Industrial Robot, 2012, 39, .	2.1	0
27	SidneyChart: A statechart GUI for SOA orchestration in autonomous industrial systems. , 2011, , .		1
28	ECHORD-The new face of academia-industry collaboration in European robotics [Industrial Activities. IEEE Robotics and Automation Magazine, 2010, 17, 21-22.	2.0	4
29	Robot path simulation: a low cost solution based on CAD. , 2010, , .		11
30	Attracting Students to Engineering: Using Intuitive HRIs for Educational Purposes. Communications in Computer and Information Science, 2010, , 250-257.	0.5	1
31	Highâ€level programming and control for industrial robotics: using a handâ€held accelerometerâ€based input device for gesture and posture recognition. Industrial Robot, 2010, 37, 137-147.	2.1	73
32	CAD-based off-line robot programming. , 2010, , .		44
33	Comparative study on the use of network services in robotic work-cells. , 2010, , .		0
34	CAD-based robot programming: The role of Fuzzy-PI force control in unstructured environments. , 2010, , .		6
35	Fuzzy-PI Force Control for Industrial Robotics. Communications in Computer and Information Science, 2010, , 322-329.	0.5	6
36	Latest unmanned vehicle show features both innovative new vehicles and miniaturization. Industrial Robot, 2009, 36, 13-18.	2.1	7

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37	A review of CADâ€based robot path planning for spray painting. Industrial Robot, 2009, 36, 45-50.	2.1	46
38	Programmingâ€byâ€demonstration in the coworker scenario for SMEs. Industrial Robot, 2009, 36, 73-83.	2.1	38
39	Experiments with service-oriented architectures for industrial robotic cells programming. Robotics and Computer-Integrated Manufacturing, 2009, 25, 746-755.	9.9	27
40	Accelerometer-based control of an industrial robotic arm. , 2009, , .		64
41	Design and validation of a novel actuator with adaptable compliance for application in humanâ€like robotics. Industrial Robot, 2009, 36, 84-90.	2.1	14
42	Cooperative robotic assistant with drillâ€byâ€wire endâ€effector for spinal fusion surgery. Industrial Robot, 2009, 36, 60-72.	2.1	28
43	An application of mobile robotics for olfactory monitoring of hazardous industrial sites. Industrial Robot, 2009, 36, 51-59.	2.1	20
44	New challenges for industrial robotic cell programming. Industrial Robot, 2009, 36, .	2.1	5
45	Robotic Welding, Intelligence and Automation. Industrial Robot, 2009, 36, .	2.1	0
46	Industrial Robotics. , 2008, , 963-986.		48
47	Using digital pens to program welding tasks. Industrial Robot, 2007, 34, 476-486.	2.1	16
48	Force control experiments for industrial applications: a test case using an industrial deburring example. Assembly Automation, 2007, 27, 148-156.	1.7	21
49	Integrated teleoperation and automation for nuclear facility cleanup. Industrial Robot, 2006, 33, 469-484.	2.1	13
50	Robotics in implant dentistry: stress/strain analysis. System overview and experiments. Industrial Robot, 2006, 33, 373-380.	2.1	8
51	Tracking a moving object with realâ€time obstacle avoidance. Industrial Robot, 2006, 33, 460-468.	2.1	6
52	It takes more than a brush to fill paint store orders. Industrial Robot, 2006, 33, 428-430.	2.1	0
53	Remote programming over multiple heterogeneous robots: a case study on distributed multirobot architecture. Industrial Robot, 2006, 33, 431-442.	2.1	9
54	Science crew operations and utility testbed. Industrial Robot, 2006, 33, 443-450.	2.1	4

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55	Robots and operators work hand in hand. Industrial Robot, 2006, 33, 422-424.	2.1	12
56	Industrial robotic system programmed from CAD files â€“ an update. Industrial Robot, 2005, 32, 314-317.	2.1	2
57	Robotâ€byâ€voice: experiments on commanding an industrial robot using the human voice. Industrial Robot, 2005, 32, 505-511.	2.1	84
58	Semi-autonomous manufacturing systems: The role of the humanâ€“machine interface software and of the manufacturing tracking software. Mechatronics, 2005, 15, 1191-1205.	3.3	14
59	From the Guest Editors - Industrial robotics applications and industry-academia cooperation in Europe. IEEE Robotics and Automation Magazine, 2005, 12, 5-6.	2.0	10
60	Complete robotic inspection line using PC-based control, supervision and parameterization software. Robotics and Computer-Integrated Manufacturing, 2005, 21, 11-17.	9.9	4
61	Interfacing industrial robotic systems with manufacturing tracking and control software: a choice for semiâ€autonomous manufacturing systems. Industrial Robot, 2005, 32, 214-219.	2.1	3
62	Welding robots: new trends and developments. Industrial Robot, 2005, 32, .	2.1	0
63	Force control for industrial applications using a fuzzy PI controller. Sensor Review, 2004, 24, 60-67.	1.8	12
64	CAD interface for automatic robot welding programming. Industrial Robot, 2004, 31, 71-76.	2.1	53
65	Handling production changes online: example using a robotic palletizing system for the automobile glass industry. Assembly Automation, 2004, 24, 254-263.	1.7	7
66	Are hackers interested in industrial systems? Is security an issue for those systems?. Assembly Automation, 2004, 24, .	1.7	0
67	Welding robots. IEEE Robotics and Automation Magazine, 2003, 10, 45-55.	2.0	41
68	Robotic deâ€palletizing system for the nonâ€flat ceramic industry. Industrial Robot, 2003, 30, 152-158.	2.1	1
69	Object oriented and distributed software applied to industrial robotic welding. Industrial Robot, 2002, 29, 149-161.	2.1	10
70	Force/torque sensing applied to industrial robotic deburring. Sensor Review, 2002, 22, 232-241.	1.8	40
71	EmailWare: a tool for eâ€manufacturing. Assembly Automation, 2001, 21, 129-135.	1.7	7
72	Object-oriented and distributed approach for programming robotic manufacturing cells. Robotics and Computer-Integrated Manufacturing, 2000, 16, 29-42.	9.9	69

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73	Interfacing industrial R&A equipment using Matlab. IEEE Robotics and Automation Magazine, 2000, 7, 32-41.	2.0	19
74	A one-stop solution in robotic control system design. IEEE Robotics and Automation Magazine, 2000, 7, 42-54.	2.0	10
75	Objectâ€oriented and distributed programming of robotic and automation equipment. Industrial Robot, 2000, 27, 279-287.	2.1	7
76	Using Actual Industrial Robot Manipulators with Construction Tasks. , 2000, , .		1
77	Position sensing and motor control in industrial robotics. , 0, , .		0
78	Running an industrial robot from a typical personal computer. , 0, , .		2
79	Remote monitoring and inspection of robotic manufacturing cells. , 0, , .		2