

Yiannis Karayiannidis

List of Publications by Year in descending order

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72
papers

1,259
citations

840776

11
h-index

526287

27
g-index

72
all docs

72
docs citations

72
times ranked

1075
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual arm manipulation – A survey. Robotics and Autonomous Systems, 2012, 60, 1340-1353.	5.1	391
2	Model-free robot joint position regulation and tracking with prescribed performance guarantees. Robotics and Autonomous Systems, 2012, 60, 214-226.	5.1	99
3	Multi-Agent Second Order Average Consensus With Prescribed Transient Behavior. IEEE Transactions on Automatic Control, 2017, 62, 5282-5288.	5.7	75
4	Force/position tracking for a robotic manipulator in compliant contact with a surface using neuro-adaptive control. Automatica, 2007, 43, 1281-1288.	5.0	61
5	A Model-Free Controller for Guaranteed Prescribed Performance Tracking of Both Robot Joint Positions and Velocities. IEEE Robotics and Automation Letters, 2016, 1, 267-273.	5.1	57
6	Online contact point estimation for uncalibrated tool use. , 2014, , .		33
7	An Adaptive Control Approach for Opening Doors and Drawers Under Uncertainties. IEEE Transactions on Robotics, 2016, 32, 161-175.	10.3	31
8	Force position control for a robot finger with a soft tip and kinematic uncertainties. Robotics and Autonomous Systems, 2007, 55, 328-336.	5.1	30
9	In-hand manipulation using gravity and controlled slip. , 2015, , .		26
10	Multi-agent average consensus control with prescribed performance guarantees. , 2012, , .		23
11	Adaptive control for pivoting with visual and tactile feedback. , 2016, , .		23
12	Adaptive control of robot contact tasks with on-line learning of planar surfaces. Automatica, 2009, 45, 2374-2382.	5.0	22
13	Distributed cooperative object attitude manipulation. , 2012, , .		17
14	Human Motion Prediction in Human-Robot Handovers based on Dynamic Movement Primitives. , 2018, , .		16
15	PID type robot joint position regulation with prescribed performance guaranties. , 2010, , .		15
16	Model-free robot manipulation of doors and drawers by means of fixed-grasps. , 2013, , .		15
17	Folding assembly by means of dual-arm robotic manipulation. , 2016, , .		15
18	Robotic Assembly of Rounded Parts With and Without Threads. IEEE Robotics and Automation Letters, 2020, 5, 2467-2474.	5.1	15

#	ARTICLE	IF	CITATIONS
19	Dual Arm Manipulation using Constraint Based Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 311-319.	0.4	14
20	Adaptive Trajectory Generation Under Velocity Constraints Using Dynamical Movement Primitives. , 2020, 4, 438-443.		14
21	A Multi Objective Control approach to Online Dual Arm Manipulation1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 747-752.	0.4	12
22	Data-Driven Model Predictive Control for the Contact-Rich Task of Food Cutting. , 2019, , .		12
23	Mapping human intentions to robot motions via physical interaction through a jointly-held object. , 2014, , .		11
24	Comparison of CNN and LSTM for Modeling Virtual Sensors in an Engine. , 0, , .		11
25	Force/Position Tracking of a Robot in Compliant Contact with Unknown Stiffness and Surface Kinematics. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	10
26	Prescribed performance control for robot joint trajectory tracking under parametric and model uncertainties. , 2009, , .		10
27	Blind force/position control on unknown planar surfaces. IET Control Theory and Applications, 2009, 3, 595-603.	2.1	10
28	Robot contact tasks in the presence of control target distortions. Robotics and Autonomous Systems, 2010, 58, 596-606.	5.1	10
29	Whole Body Control of a Dual-Arm Mobile Robot Using a Virtual Kinematic Chain. International Journal of Humanoid Robotics, 2016, 13, 1550047.	1.1	10
30	Performance analysis of a soft tip robotic finger controlled by a parallel force/position regulator under kinematic uncertainties. IET Control Theory and Applications, 2007, 1, 273-280.	2.1	9
31	Regressor-free prescribed performance robot tracking. Robotica, 2013, 31, 1229-1238.	1.9	9
32	Force/Position Regulation for a Robot in Compliant Contact Using Adaptive Surface Slope Identification. IEEE Transactions on Automatic Control, 2008, 53, 2116-2122.	5.7	8
33	Force/position control self-tuned to unknown surface slopes using motion variables. Robotica, 2008, 26, 703-710.	1.9	8
34	Predicting slippage and learning manipulation affordances through Gaussian Process regression. , 2013, , .		8
35	Online kinematics estimation for active human-robot manipulation of jointly held objects. , 2013, , .		8
36	Posture regulation for unicycle-like robots with prescribed performance guarantees. IET Control Theory and Applications, 2015, 9, 192-202.	2.1	8

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37	Bimanual folding assembly: Switched control and contact point estimation. , 2016, , .		8
38	Temporal Coupling of Dynamical Movement Primitives for Constrained Velocities and Accelerations. IEEE Robotics and Automation Letters, 2021, 6, 2233-2239.	5.1	8
39	Task-Based Role Adaptation for Human-Robot Cooperative Object Handling. IEEE Robotics and Automation Letters, 2021, 6, 3592-3598.	5.1	8
40	Adaptive Force/Velocity control for opening unknown doors1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 753-758.	0.4	7
41	Cooperative control of a serial-to-parallel structure using a virtual kinematic chain in a mobile dual-arm manipulation application. , 2015, , .		7
42	Planning and Control for Cable-routing with Dual-arm Robot. , 2022, , .		7
43	An adaptive law for slope identification and force position regulation using motion variables. , 0, , .		6
44	“Open sesame!” adaptive force/velocity control for opening unknown doors. , 2012, , .		6
45	Cooperative Object Path Following Control by means of Mobile Manipulators: a Switched Systems Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 773-778.	0.4	6
46	Human-robot collaborative object transfer using human motion prediction based on Dynamic Movement Primitives. , 2019, , .		5
47	Optimal command ordering for serial link manipulators. , 2012, , .		4
48	Robot Control for Task Performance and Enhanced Safety under Impact. Frontiers in Robotics and AI, 2015, 2, .	3.2	4
49	Dexterous manipulation with compliant grasps and external contacts. , 2017, , .		4
50	Cooperative Manipulation and Identification of a 2-DOF Articulated Object by a Dual-Arm Robot. , 2018, , .		4
51	Human grasp position estimation for human“robot cooperative object manipulation. Robotics and Autonomous Systems, 2020, 131, 103600.	5.1	4
52	Force/Position Regulation for a Robotic Finger in Compliant Contact with an Unknown Surface. , 0, , .		3
53	Force/position tracking for a robotic finger in compliant contact with a surface using neuro-adaptive control. , 2006, , .		3
54	Regressor-free robot joint position tracking with prescribed performance guarantees. , 2011, , .		3

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55	A Lyapunov-Based Approach to Exploit Asymmetries in Robotic Dual-Arm Task Resolution. , 2019, , .		3
56	An Adaptive Force Regulator for a Robot in Compliant Contact with an Unknown Surface. , 0, , .		2
57	Adaptive control for frictional robot contact tasks on uncertain surface slopes. , 2008, , .		2
58	Physical Human-Robot Interaction through a Jointly-held Object based on Kinesthetic Perception. , 2018, , .		2
59	Robot Force/Position Tracking on a Surface of Unknown Orientation. , 2008, , 253-262.		2
60	A Neuro-Adaptive Controller for the Force/Position Tracking of a Robot Manipulator under Model Uncertainties in Compliance and Friction. , 2006, , .		1
61	Robot joint position tracking with an approximator-free prescribed performance controller. , 2011, , .		1
62	A hybrid control approach to task priority based mobile manipulation. , 2015, , .		1
63	Operational space robot control for motion performance and safe interaction under Unintentional Contacts. , 2016, , .		1
64	Asymmetric Dual-Arm Task Execution Using an Extended Relative Jacobian. Springer Proceedings in Advanced Robotics, 2022, , 18-34.	1.3	1
65	An adaptive law for slope identification, position tracking and force regulation for a robot in compliant contact with an unknown surface. , 2007, , .		0
66	Force/position/rolling control for spherical tip robotic fingers. , 2015, , .		0
67	SARAFun, Smart Assembly Robot with Advanced FUNctionalities, H2020. Impact, 2017, 2017, 67-69.	0.1	0
68	Universal, Open Source, Myoelectric Interface for Assistive Devices. , 2018, , .		0
69	Discrete Bimanual Manipulation for Wrench Balancing. , 2020, , .		0
70	Force/Position Tracking for a Robotic Finger in Compliant Contact with a Surface using Neuro-Adaptive Control. , 2006, , .		0
71	Team KTH's Picking Solution for the Amazon Picking Challenge 2016. , 2020, , 53-62.		0
72	Trajectory Scaling for Reactive Motion Planning. , 2022, , .		0