

Yiannis Karayiannidis

List of Publications by Year in descending order

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72
papers

1,259
citations

840776

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h-index

526287

27
g-index

72
all docs

72
docs citations

72
times ranked

1075
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Dual-Arm Task Execution Using an Extended Relative Jacobian. Springer Proceedings in Advanced Robotics, 2022, , 18-34.	1.3	1
2	Planning and Control for Cable-routing with Dual-arm Robot. , 2022, , .		7
3	Trajectory Scaling for Reactive Motion Planning. , 2022, , .		0
4	Temporal Coupling of Dynamical Movement Primitives for Constrained Velocities and Accelerations. IEEE Robotics and Automation Letters, 2021, 6, 2233-2239.	5.1	8
5	Task-Based Role Adaptation for Human-Robot Cooperative Object Handling. IEEE Robotics and Automation Letters, 2021, 6, 3592-3598.	5.1	8
6	Adaptive Trajectory Generation Under Velocity Constraints Using Dynamical Movement Primitives. , 2020, 4, 438-443.		14
7	Discrete Bimanual Manipulation for Wrench Balancing. , 2020, , .		0
8	Human grasp position estimation for human-robot cooperative object manipulation. Robotics and Autonomous Systems, 2020, 131, 103600.	5.1	4
9	Robotic Assembly of Rounded Parts With and Without Threads. IEEE Robotics and Automation Letters, 2020, 5, 2467-2474.	5.1	15
10	Team KTH's Picking Solution for the Amazon Picking Challenge 2016. , 2020, , 53-62.		0
11	Human-robot collaborative object transfer using human motion prediction based on Dynamic Movement Primitives. , 2019, , .		5
12	A Lyapunov-Based Approach to Exploit Asymmetries in Robotic Dual-Arm Task Resolution. , 2019, , .		3
13	Data-Driven Model Predictive Control for the Contact-Rich Task of Food Cutting. , 2019, , .		12
14	Physical Human-Robot Interaction through a Jointly-held Object based on Kinesthetic Perception. , 2018, , .		2
15	Human Motion Prediction in Human-Robot Handovers based on Dynamic Movement Primitives. , 2018, , .		16
16	Universal, Open Source, Myoelectric Interface for Assistive Devices. , 2018, , .		0
17	Cooperative Manipulation and Identification of a 2-DOF Articulated Object by a Dual-Arm Robot. , 2018, , .		4
18	Multi-Agent Second Order Average Consensus With Prescribed Transient Behavior. IEEE Transactions on Automatic Control, 2017, 62, 5282-5288.	5.7	75

#	ARTICLE	IF	CITATIONS
19	Dexterous manipulation with compliant grasps and external contacts. , 2017, , .		4
20	SARAFun, Smart Assembly Robot with Advanced FUNctionalities, H2020. Impact, 2017, 2017, 67-69.	0.1	0
21	Folding assembly by means of dual-arm robotic manipulation. , 2016, , .		15
22	Bimanual folding assembly: Switched control and contact point estimation. , 2016, , .		8
23	Operational space robot control for motion performance and safe interaction under Unintentional Contacts. , 2016, , .		1
24	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
25	Adaptive control for pivoting with visual and tactile feedback. , 2016, , .		23
26	An Adaptive Control Approach for Opening Doors and Drawers Under Uncertainties. IEEE Transactions on Robotics, 2016, 32, 161-175.	10.3	31
27	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
28	Posture regulation for unicycle-like robots with prescribed performance guarantees. IET Control Theory and Applications, 2015, 9, 192-202.	2.1	8
29	Robot Control for Task Performance and Enhanced Safety under Impact. Frontiers in Robotics and AI, 2015, 2, .	3.2	4
30	Force/position/rolling control for spherical tip robotic fingers. , 2015, , .		0
31	Cooperative control of a serial-to-parallel structure using a virtual kinematic chain in a mobile dual-arm manipulation application. , 2015, , .		7
32	In-hand manipulation using gravity and controlled slip. , 2015, , .		26
33	A hybrid control approach to task priority based mobile manipulation. , 2015, , .		1
34	Mapping human intentions to robot motions via physical interaction through a jointly-held object. , 2014, , .		11
35	Online contact point estimation for uncalibrated tool use. , 2014, , .		33
36	Dual Arm Manipulation using Constraint Based Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 311-319.	0.4	14

#	ARTICLE	IF	CITATIONS
37	Regressor-free prescribed performance robot tracking. <i>Robotica</i> , 2013, 31, 1229-1238.	1.9	9
38	Predicting slippage and learning manipulation affordances through Gaussian Process regression. , 2013, , .		8
39	Online kinematics estimation for active human-robot manipulation of jointly held objects. , 2013, , .		8
40	Model-free robot manipulation of doors and drawers by means of fixed-grasps. , 2013, , .		15
41	“Open sesame!” adaptive force/velocity control for opening unknown doors. , 2012, , .		6
42	A Multi Objective Control approach to Online Dual Arm Manipulation1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 747-752.	0.4	12
43	Adaptive Force/Velocity control for opening unknown doors1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 753-758.	0.4	7
44	Cooperative Object Path Following Control by means of Mobile Manipulators: a Switched Systems Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 773-778.	0.4	6
45	Distributed cooperative object attitude manipulation. , 2012, , .		17
46	Optimal command ordering for serial link manipulators. , 2012, , .		4
47	Multi-agent average consensus control with prescribed performance guarantees. , 2012, , .		23
48	Dual arm manipulationâ€™A survey. <i>Robotics and Autonomous Systems</i> , 2012, 60, 1340-1353.	5.1	391
49	Model-free robot joint position regulation and tracking with prescribed performance guarantees. <i>Robotics and Autonomous Systems</i> , 2012, 60, 214-226.	5.1	99
50	Regressor-free robot joint position tracking with prescribed performance guarantees. , 2011, , .		3
51	Robot joint position tracking with an approximator-free prescribed performance controller. , 2011, , .		1
52	Robot contact tasks in the presence of control target distortions. <i>Robotics and Autonomous Systems</i> , 2010, 58, 596-606.	5.1	10
53	PID type robot joint position regulation with prescribed performance guaranties. , 2010, , .		15
54	Adaptive control of robot contact tasks with on-line learning of planar surfaces. <i>Automatica</i> , 2009, 45, 2374-2382.	5.0	22

#	ARTICLE	IF	CITATIONS
55	Prescribed performance control for robot joint trajectory tracking under parametric and model uncertainties. , 2009, , .		10
56	Blind force/position control on unknown planar surfaces. IET Control Theory and Applications, 2009, 3, 595-603.	2.1	10
57	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
58	Adaptive control for frictional robot contact tasks on uncertain surface slopes. , 2008, , .		2
59	Force/position control self-tuned to unknown surface slopes using motion variables. Robotica, 2008, 26, 703-710.	1.9	8
60	Robot Force/Position Tracking on a Surface of Unknown Orientation. , 2008, , 253-262.		2
61	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
62	An adaptive law for slope identification, position tracking and force regulation for a robot in compliant contact with an unknown surface. , 2007, , .		0
63	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
64	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
65	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
66	Force/position tracking for a robotic finger in compliant contact with a surface using neuro-adaptive control. , 2006, , .		3
67	A Neuro-Adaptive Controller for the Force/Position Tracking of a Robot Manipulator under Model Uncertainties in Compliance and Friction. , 2006, , .		1
68	Force/Position Tracking for a Robotic Finger in Compliant Contact with a Surface using Neuro-Adaptive Control. , 2006, , .		0
69	An Adaptive Force Regulator for a Robot in Compliant Contact with an Unknown Surface. , 0, , .		2
70	Force/Position Regulation for a Robotic Finger in Compliant Contact with an Unknown Surface. , 0, , .		3
71	An adaptive law for slope identification and force position regulation using motion variables. , 0, , .		6
72	Comparison of CNN and LSTM for Modeling Virtual Sensors in an Engine. , 0, , .		11