

# Zoe Doulgeri

## List of Publications by Year in descending order

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114  
papers

1,833  
citations

331670

21  
h-index

330143

37  
g-index

117  
all docs

117  
docs citations

117  
times ranked

1137  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robotic Assistance in Medication Intake: A Complete Pipeline. Applied Sciences (Switzerland), 2022, 12, 1379.	2.5	2
2	A passive admittance controller to enforce Remote Center of Motion and Tool Spatial constraints with application in hands-on surgical procedures. Robotics and Autonomous Systems, 2022, 152, 104073.	5.1	4
3	Learning Push-Grasping in Dense Clutter. IEEE Robotics and Automation Letters, 2022, 7, 8783-8790.	5.1	5
4	A model free robot control method for dragging an object on a planar surface by applying top contact forces. , 2022, , .		1
5	Total Singulation With Modular Reinforcement Learning. IEEE Robotics and Automation Letters, 2021, 6, 4117-4124.	5.1	13
6	A Controller to Impose a RCM for Hands-on Robotic-Assisted Minimally Invasive Surgery. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 392-401.	3.2	13
7	A control method for time-variant RCM constraint in hands-on RAMIS procedures. , 2021, , .		0
8	A Robust Controller for Stable 3D Pinching Using Tactile Sensing. IEEE Robotics and Automation Letters, 2021, 6, 8150-8157.	5.1	6
9	A Reversible Dynamic Movement Primitive formulation. , 2021, , .		6
10	Human-robot collaborative object transfer using human motion prediction based on Cartesian pose Dynamic Movement Primitives. , 2021, , .		4
11	Pick-and-place in dynamic environments with a mobile dual-arm robot equipped with distributed distance sensors. , 2021, , .		6
12	Exponential stability of an attitude trajectory tracking controller utilizing unit quaternions. , 2021, , .		2
13	Task geometry aware assistance for kinesthetic teaching of redundant robots. , 2021, , .		7
14	A passive robot controller aiding human coaching for kinematic behavior modifications. Robotics and Computer-Integrated Manufacturing, 2020, 61, 101824.	9.9	11
15	Kinesthetic Guidance Utilizing DMP Synchronization and Assistive Virtual Fixtures for Progressive Automation. Robotica, 2020, 38, 1824-1841.	1.9	12
16	A Machine Learning Framework for Real-Time Identification of Successful Snap-Fit Assemblies. IEEE Transactions on Automation Science and Engineering, 2020, 17, 513-523.	5.2	22
17	Split Deep Q-Learning for Robust Object Singulation. , 2020, , .		17
18	A novel DMP formulation for global and frame independent spatial scaling in the task space. , 2020, , .		14

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19	Learning by demonstration for constrained tasks. , 2020, , .		3
20	Dynamic Movement Primitives for moving goals with temporal scaling adaptation. , 2020, , .		17
21	A Control Scheme With a Novel DMP-Robot Coupling Achieving Compliance and Tracking Accuracy Under Unknown Task Dynamics and Model Uncertainties. IEEE Robotics and Automation Letters, 2020, 5, 2310-2316.	5.1	8
22	A Passive pHRI Controller for Assisting the User in Partially Known Tasks. IEEE Transactions on Robotics, 2020, 36, 802-815.	10.3	10
23	Progressive Automation of Periodic Movements. Springer Proceedings in Advanced Robotics, 2020, , 58-72.	1.3	3
24	Manipulation of a Whole Surgical Tool Within Safe Regions Utilizing Barrier Artificial Potentials. IFMBE Proceedings, 2020, , 1559-1570.	0.3	2
25	Human-guided desired RCM constraint manipulation with applications in robotic surgery: A torque level control approach. , 2020, , .		2
26	Progressive automation of periodic tasks on planar surfaces of unknown pose with hybrid force/position control. , 2020, , .		2
27	A control scheme for haptic inspection and partial modification of kinematic behaviors. , 2020, , .		2
28	Guaranteed Active Constraints Enforcement on Point Cloud-approximated Regions for Surgical Applications. , 2019, , .		14
29	Human-robot collaborative object transfer using human motion prediction based on Dynamic Movement Primitives. , 2019, , .		5
30	Stability of Active Constraints Enforcement in Sensitive Regions Defined by Point-Clouds for Robotic Surgical Procedures. , 2019, , .		4
31	A human inspired handover policy using Gaussian Mixture Models and haptic cues. Autonomous Robots, 2019, 43, 1327-1342.	4.8	10
32	Constrained visual servoing under uncertain dynamics. International Journal of Control, 2019, 92, 2099-2111.	1.9	8
33	Progressive Automation of Repetitive Tasks Involving both Translation and Rotation. Mechanisms and Machine Science, 2019, , 53-62.	0.5	0
34	Slippage Detection Generalizing to Grasping of Unknown Objects using Machine Learning with Novel Features. IEEE Robotics and Automation Letters, 2018, , 1-1.	5.1	14
35	Prescribed contact establishment of a robot with a planar surface under position and stiffness uncertainties. Robotics and Autonomous Systems, 2018, 104, 99-108.	5.1	17
36	Stable pinching by controlling finger relative orientation of robotic fingers with rolling soft tips. Robotica, 2018, 36, 204-224.	1.9	9

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37	A pHRI Framework for Modifying a Robot's Kinematic Behaviour via Varying Stiffness and Dynamical System Synchronization. , 2018, , .		1
38	On the Stability of Robot Kinesthetic Guidance in the Presence of Active Constraints. , 2018, , .		6
39	Sinc-Based Dynamic Movement Primitives for Encoding Point-to-point Kinematic Behaviors. , 2018, , .		3
40	Bimanual Assembly of Two Parts with Relative Motion Generation and Task Related Optimization. , 2018, , .		22
41	Real-Time Event Detection in Time-Series Classification Based on Amplitude Rejection. , 2018, , .		1
42	Grasping Flat Objects by Exploiting Non-Convexity of the Object and Support Surface. , 2018, , .		5
43	Progressive Automation with DMP Synchronization and Variable Stiffness Control. IEEE Robotics and Automation Letters, 2018, 3, 3789-3796.	5.1	23
44	Human-inspired robotic grasping of flat objects. Robotics and Autonomous Systems, 2018, 108, 179-191.	5.1	14
45	Dynamical System Based Robotic Motion Generation With Obstacle Avoidance. IEEE Robotics and Automation Letters, 2017, 2, 712-718.	5.1	21
46	Guaranteeing Field of View Constraints in Visual Servoing Tasks under Uncertain Dynamics. IFAC-PapersOnLine, 2017, 50, 2229-2234.	0.9	4
47	On Prescribed Contact Establishment * *This work is funded by the EU Horizon 2020 research and innovation programme under grant agreement No 644938, project SARAFun.The authors are with the Center for Research and Technology Hellas (CERTH), 57001 Thessaloniki, Greece and with the Aristotle University of Thessaloniki, Dept. of Electrical and Computer Engineering, 54124, Thessaloniki, Greece. IFAC-PapersOnLine, 2017, 50, 4831-4836.	0.9	1
48	Operational space robot control for motion performance and safe interaction under Unintentional Contacts. , 2016, , .		1
49	A passivity based control signal guaranteeing joint limit avoidance in redundant robots. , 2016, , .		6
50	Robot finger control for rolling on curved surfaces. , 2016, , .		0
51	A fast robot deployment strategy for successful snap assembly. , 2016, , .		4
52	Kinematic control of redundant robots with guaranteed joint limit avoidance. Robotics and Autonomous Systems, 2016, 79, 122-131.	5.1	46
53	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
54	Rolling Contact Motion Generation and Control of Robotic Fingers. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 82, 21-38.	3.4	6

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55	Robot Control for Task Performance and Enhanced Safety under Impact. <i>Frontiers in Robotics and AI</i> , 2015, 2, .	3.2	4
56	Prescribed Performance Tracking of a Variable Stiffness Actuated Robot. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 1914-1926.	5.2	81
57	Force/position/rolling control for spherical tip robotic fingers. , 2015, , .		0
58	Joint position tracking with prescribed performance of uncertain robotic manipulators using only joint position measurements. , 2015, , .		0
59	An impedance control modification guaranteeing compliance strictly within preselected spatial limits. , 2015, , .		2
60	A human inspired stable object load transfer for robots in hand-over tasks. , 2015, , .		2
61	Operational Space Prescribed Tracking Performance and Compliance in Flexible Joint Robots. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015, 137, .	1.6	3
62	A kinematic controller for human-robot handshaking using internal motion adaptation. , 2015, , .		14
63	Towards achieving rolling contact motion in a spherical robotic fingertip. , 2015, , .		1
64	A physical Human Robot Interaction architecture for flexible joint robots. , 2014, , .		1
65	A robot hand-over control scheme for human-like haptic interaction. , 2014, , .		2
66	Reaching for redundant arms with human-like motion and compliance properties. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1731-1741.	5.1	23
67	Prescribed performance tracking for flexible joint robots with unknown dynamics and variable elasticity. <i>Automatica</i> , 2013, 49, 1137-1147.	5.0	154
68	Regressor-free prescribed performance robot tracking. <i>Robotica</i> , 2013, 31, 1229-1238.	1.9	9
69	On rolling contact motion by robotic fingers via prescribed performance control. , 2013, , .		16
70	Smooth Reaching and Human-Like Compliance in Physical Interactions for Redundant Arms. <i>Lecture Notes in Computer Science</i> , 2013, , 116-126.	1.3	0
71	A simple controller for a variable stiffness joint with uncertain dynamics and prescribed performance guarantees. , 2012, , .		5
72	A prescribed performance referential control for human-like reaching movement of redundant arms. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 295-300.	0.4	6

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73	Prescribed performance tracking for flexible joint robots with unknown dynamics and elasticity. , 2012, , .		10
74	Guaranteeing prescribed performance and contact maintenance via an approximation free robot force/position controller. Automatica, 2012, 48, 360-365.	5.0	67
75	Model-free robot joint position regulation and tracking with prescribed performance guarantees. Robotics and Autonomous Systems, 2012, 60, 214-226.	5.1	99
76	Robot contact tasks in the presence of control target distortions. Robotics and Autonomous Systems, 2010, 58, 596-606.	5.1	10
77	Robot task space PID type regulation with prescribed performance guaranties. , 2010, , .		7
78	Neuro-Adaptive Force/Position Control With Prescribed Performance and Guaranteed Contact Maintenance. IEEE Transactions on Neural Networks, 2010, 21, 1857-1868.	4.2	107
79	Model free force/position robot control with prescribed performance. , 2010, , .		2
80	Adaptive control of robot contact tasks with on-line learning of planar surfaces. Automatica, 2009, 45, 2374-2382.	5.0	22
81	Prescribed performance control for robot joint trajectory tracking under parametric and model uncertainties. , 2009, , .		10
82	Blind force/position control on unknown planar surfaces. IET Control Theory and Applications, 2009, 3, 595-603.	2.1	10
83	Prescribed Performance Regulation for Robot Manipulators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 573-578.	0.4	3
84	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
85	Equilibrium Conditions of a Polygonal Object When Grasped by Soft-Rolling Contacts. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	1.6	2
86	Adaptive control for frictional robot contact tasks on uncertain surface slopes. , 2008, , .		2
87	Force/position control self-tuned to unknown surface slopes using motion variables. Robotica, 2008, 26, 703-710.	1.9	8
88	Robot Force/Position Tracking on a Surface of Unknown Orientation. , 2008, , 253-262.		2
89	Stability of a contact task for a robotic arm modelled as a switched system. IET Control Theory and Applications, 2007, 1, 844-853.	2.1	25
90	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

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91	An adaptive law for slope identification, position tracking and force regulation for a robot in compliant contact with an unknown surface. , 2007, , .		0
92	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
93	A controller to achieve robotic soft fingertip rolling and position/force regulation using motion variables. , 2007, , .		0
94	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
95	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
96	Force/position tracking for a robotic finger in compliant contact with a surface using neuro-adaptive control. , 2006, , .		3
97	A Neuro-Adaptive Controller for the Force/Position Tracking of a Robot Manipulator under Model Uncertainties in Compliance and Friction. , 2006, , .		1
98	A Web Telerobotic System to Teach Industrial Robot Path Planning and Control. IEEE Transactions on Education, 2006, 49, 263-270.	2.4	30
99	Force/Position Tracking for a Robotic Finger in Compliant Contact with a Surface using Neuro-Adaptive Control. , 2006, , .		0
100	Contact stability analysis of a one degree-of-freedom robot using hybrid system stability theory. Robotica, 2005, 23, 607-614.	1.9	12
101	Grasping control of rolling manipulations with deformable fingertips. IEEE/ASME Transactions on Mechatronics, 2003, 8, 283-286.	5.8	42
102	Improving Simulation Project Efficiency Using Web Technology. Simulation, 2002, 78, 568-579.	1.8	3
103	Dynamics, Contact Motion and Control of Dual Arm Object Manipulation With Soft Rolling Fingertips. , 2002, , 303.		0
104	Stable pinching by a pair of robot fingers with soft tips under the effect of gravity. Robotica, 2002, 20, 241-249.	1.9	32
105	Picking up flexible pieces out of a bundle. IEEE Robotics and Automation Magazine, 2002, 9, 9-19.	2.0	21
106	A position/force control for a robot finger with soft tip and uncertain kinematics. Journal of Field Robotics, 2002, 19, 115-131.	0.7	28
107	Dynamics and control of a set of dual fingers with soft tips. Robotica, 2000, 18, 71-80.	1.9	175
108	On the decoupling of position and force controllers in constrained robotic tasks. Journal of Field Robotics, 1998, 15, 323-340.	0.7	8

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109	Nonlinear Stability of Hybrid Control. International Journal of Robotics Research, 1998, 17, 792-806.	8.5	7
110	Robot handling of flat textile materials. IEEE Robotics and Automation Magazine, 1997, 4, 34-41.	2.0	26
111	A robotic system for handling textile and non rigid flat materials. Computers in Industry, 1995, 26, 303-313.	9.9	30
112	A hierarchical knowledge-based scheduling and control for FMSs. International Journal of Computer Integrated Manufacturing, 1993, 6, 191-200.	4.6	11
113	Loss minimization in DC drives. IEEE Transactions on Industrial Electronics, 1991, 38, 328-336.	7.9	28
114	The Scheduling of Flexible Manufacturing Systems. CIRP Annals - Manufacturing Technology, 1987, 36, 343-346.	3.6	21