

# Bruno Siciliano

## List of Publications by Year in descending order

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Version: 2024-02-01

176  
papers

5,605  
citations

185998

28  
h-index

123241

61  
g-index

187  
all docs

187  
docs citations

187  
times ranked

4069  
citing authors

#	ARTICLE	IF	CITATIONS
1	Leveraging Kernelized Synergies on Shared Subspace for Precision Grasping and Dexterous Manipulation. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 2064-2076.	2.6	9
2	A Coordinate-Free Framework for Robotic Pizza Tossing and Catching. Springer Tracts in Advanced Robotics, 2022, , 207-227.	0.3	1
3	The PRISMA Hand II: A Sensorized Robust Hand for Adaptive Grasp and In-Hand Manipulation. Springer Proceedings in Advanced Robotics, 2022, , 971-986.	0.9	2
4	On the Use of Cayley Transform for Kinematic Shape Reconstruction of Soft Continuum Robots. Springer Proceedings in Advanced Robotics, 2022, , 867-875.	0.9	0
5	Review and descriptive investigation of the connection between bipedal locomotion and non-prehensile manipulation. Annual Reviews in Control, 2022, 53, 51-69.	4.4	9
6	Recurrent fuzzy wavelet neural network variable impedance control of robotic manipulators with fuzzy gain dynamic surface in an unknown varied environment. Fuzzy Sets and Systems, 2021, 416, 1-26.	1.6	22
7	Networking for Cloud Robotics: The DewROS Platform and Its Application. Journal of Sensor and Actuator Networks, 2021, 10, 34.	2.3	7
8	Physical Human-Robot Interaction With a Tethered Aerial Vehicle: Application to a Force-Based Human Guiding Problem. IEEE Transactions on Robotics, 2021, 37, 723-734.	7.3	24
9	Calibration of tactile/force sensors for grasping with the PRISMA Hand II. , 2021, , .		2
10	Miniaturized optical fiber probe for prostate cancer screening. Biomedical Optics Express, 2021, 12, 5691.	1.5	4
11	Autonomy in Physical Human-Robot Interaction: A Brief Survey. IEEE Robotics and Automation Letters, 2021, 6, 7989-7996.	3.3	73
12	Vision Based Adaptation to Kernelized Synergies for Human Inspired Robotic Manipulation. , 2021, , .		3
13	Modeling and Simulation of Hybrid Soft Robots Using Finite Element Methods: Brief Overview and Benefits. Springer Proceedings in Advanced Robotics, 2021, , 335-340.	0.9	4
14	Robot-Aided Prostate Cancer Diagnosis with Fiber Optic Sensing: A Validation Study on Phantoms and Ex-Vivo Tissues. Uro, 2021, 1, 245-253.	0.3	3
15	Delay-Dependent Stability Analysis in Haptic Rendering. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 97, 33-45.	2.0	13
16	The influence of coordinates in robotic manipulability analysis. Mechanism and Machine Theory, 2020, 146, 103722.	2.7	17
17	An obstacle-interaction planning method for navigation of actuated vine robots. , 2020, , .		19
18	RGB-D Recognition and Localization of Cases for Robotic Depalletizing in Supermarkets. IEEE Robotics and Automation Letters, 2020, 5, 6233-6238.	3.3	14

#	ARTICLE	IF	CITATIONS
19	Modeling of Deformable Objects for Robotic Manipulation: A Tutorial and Review. <i>Frontiers in Robotics and AI</i> , 2020, 7, 82.	2.0	46
20	The PRISMA Hand I: A novel underactuated design and EMG/voice-based multimodal control. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 93, 103698.	4.3	9
21	Influence of human operator on stability of haptic rendering: a closed-form equation. <i>International Journal of Intelligent Robotics and Applications</i> , 2020, 4, 403-415.	1.6	12
22	A Flexible Robotic Depalletizing System for Supermarket Logistics. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4471-4476.	3.3	17
23	3D Registration and Integrated Segmentation Framework for Heterogeneous Unmanned Robotic Systems. <i>Remote Sensing</i> , 2020, 12, 1608.	1.8	9
24	An External Force Sensing System for Minimally Invasive Robotic Surgery. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1543-1554.	3.7	24
25	A Reconfigurable Gripper for Robotic Autonomous Depalletizing in Supermarket Logistics. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4612-4617.	3.3	13
26	Modeling, Optimization, and Experimentation of the ParaGripper for In-Hand Manipulation Without Parasitic Rotation. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3011-3018.	3.3	8
27	Vision-Based Dynamic Virtual Fixtures for Tools Collision Avoidance in Robotic Surgery. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 1650-1655.	3.3	28
28	Nonprehensile Manipulation Control and Task Planning for Deformable Object Manipulation: Results from the RoDyMan Project. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 76-100.	0.3	2
29	Geometrical Interpretation and Detection of Multiple Task Conflicts using a Coordinate Invariant Index. , 2020, , .		4
30	From Differential Geometry of Curves to Helical Kinematics of Continuum Robots Using Exponential Mapping. <i>Springer Proceedings in Advanced Robotics</i> , 2019, , 319-326.	0.9	7
31	Nonlinear Model Predictive Control for the Stabilization of a Wheeled Unmanned Aerial Vehicle on a Pipe. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 4314-4321.	3.3	4
32	Passive Task-Prioritized Shared-Control Teleoperation with Haptic Guidance. , 2019, , .		30
33	The MERO Hand: A Mechanically Robust Anthropomorphic Prosthetic Hand using Novel Compliant Rolling Contact Joint. , 2019, , .		13
34	Semi-Automated 3D Registration for Heterogeneous Unmanned Robots Based on Scale Invariant Method. , 2019, , .		1
35	The MUSHA underactuated hand for robot-aided minimally invasive surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2019, 15, e1981.	1.2	13
36	Vision-based grasp learning of an anthropomorphic hand-arm system in a synergy-based control framework. <i>Science Robotics</i> , 2019, 4, .	9.9	51

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37	Modeling and vibration control of flexible mechanical systems for DEMO remote maintenance: Results from the FlexARM project. Fusion Engineering and Design, 2019, 146, 1423-1425.	1.0	11
38	Haptic-guided shared control for needle grasping optimization in minimally invasive robotic surgery. , 2019, , .		26
39	Vision-based Virtual Fixtures Generation for Robotic-Assisted Polyp Dissection Procedures. , 2019, , .		10
40	Closed-loop Control of a Nonprehensile Manipulation System Inspired by the Pizza-Peel Mechanism. , 2019, , .		6
41	Human Cognition-Inspired Robotic Grasping. Intelligent Systems, Control and Automation: Science and Engineering, 2019, , 71-84.	0.3	0
42	A Geometrically Exact Model for Soft Continuum Robots: The Finite Element Deformation Space Formulation. Soft Robotics, 2019, 6, 790-811.	4.6	151
43	Autonomy in surgical robots and its meaningful human control. Paladyn, 2019, 10, 30-43.	1.9	53
44	Control of Nonprehensile Planar Rolling Manipulation: A Passivity-Based Approach. IEEE Transactions on Robotics, 2019, 35, 317-329.	7.3	27
45	Screw-based dynamics of a serial/parallel flexible manipulator for DEMO blanket remote handling. Fusion Engineering and Design, 2019, 139, 39-46.	1.0	8
46	MULTI-WAYPOINT-BASED PATH PLANNING FOR FREE-FLOATING SPACE ROBOTS. International Journal of Robotics and Automation, 2019, 34, .	0.1	1
47	Nonprehensile Manipulation of an Underactuated Mechanical System With Second-Order Nonholonomic Constraints: The Robotic Hula-Hoop. IEEE Robotics and Automation Letters, 2018, 3, 1136-1143.	3.3	7
48	Analytical Stability Criterion in Haptic Rendering: The Role of Damping. IEEE/ASME Transactions on Mechatronics, 2018, 23, 596-603.	3.7	31
49	SARRI: A SmArt Rapiro Robot Integrating a Framework for Automatic High-Level Surveillance Event Detection. , 2018, , .		8
50	Nonprehensile Dynamic Manipulation: A Survey. IEEE Robotics and Automation Letters, 2018, 3, 1711-1718.	3.3	85
51	Synergies Evaluation of the SCHUNK S5FH for Grasping Control. Springer Proceedings in Advanced Robotics, 2018, , 225-233.	0.9	13
52	Passivity-Based Control Design and Experiments for a Rolling-Balancing System. Lecture Notes in Electrical Engineering, 2018, , 230-255.	0.3	0
53	Time-Optimal Paths for a Robotic Batting Task. Lecture Notes in Electrical Engineering, 2018, , 256-276.	0.3	1
54	Capturing Deformations of Interacting Non-rigid Objects Using RGB-D Data. , 2018, , .		14

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55	Fast Iterative 3D Mapping for Large-Scale Outdoor Environments with Local Minima Escape Mechanism. IFAC-PapersOnLine, 2018, 51, 298-305.	0.5	2
56	Fast Statistical Outlier Removal Based Method for Large 3D Point Clouds of Outdoor Environments. IFAC-PapersOnLine, 2018, 51, 348-353.	0.5	71
57	On the Experiments About the Nonprehensile Reconfiguration of a Rolling Sphere on a Plate. , 2018, , .		5
58	A Comparison of Assistive Methods for Suturing in MIRS. , 2018, , .		8
59	A V-REP Simulator for the da Vinci Research Kit Robotic Platform. , 2018, , .		38
60	A New Laparoscopic Tool With In-Hand Rolling Capabilities for Needle Reorientation. IEEE Robotics and Automation Letters, 2018, 3, 2354-2361.	3.3	19
61	Passive Virtual Fixtures Adaptation in Minimally Invasive Robotic Surgery. IEEE Robotics and Automation Letters, 2018, 3, 3129-3136.	3.3	44
62	Analytic solutions for the static equilibrium configurations of externally loaded cantilever soft robotic arms. , 2018, , .		6
63	Nonprehensile Manipulation of Deformable Objects: Achievements and Perspectives from the Robotic Dynamic Manipulation Project. IEEE Robotics and Automation Magazine, 2018, 25, 83-92.	2.2	22
64	Haptic-Based Shared-Control Methods for a Dual-Arm System. IEEE Robotics and Automation Letters, 2018, 3, 4249-4256.	3.3	39
65	Vision-based and IMU-aided scale factor-free linear velocity estimator. Autonomous Robots, 2017, 41, 903-917.	3.2	7
66	Passivity-Based Control for a Rolling-Balancing System: The Nonprehensile Disk-on-Disk. IEEE Transactions on Control Systems Technology, 2017, 25, 2135-2142.	3.2	24
67	Which impedance strategy is the most effective for cooperative object manipulation?. Industrial Robot, 2017, 44, 198-209.	1.2	4
68	A stochastic algorithm for automatic hand pose and motion estimation. Medical and Biological Engineering and Computing, 2017, 55, 2197-2208.	1.6	1
69	Teleoperation of the SCHUNK S5FH under-actuated anthropomorphic hand using human hand motion tracking. Robotics and Autonomous Systems, 2017, 89, 75-84.	3.0	47
70	A Nonlinear Least Squares Approach for Nonprehensile Dual-Hand Robotic Ball Juggling. IFAC-PapersOnLine, 2017, 50, 11485-11490.	0.5	11
71	Triangular block bridge method for surgical treatment of complex proximal humeral fractures: theoretical concept, surgical technique and clinical results. Injury, 2017, 48, S12-S19.	0.7	14
72	Robust IDA-PBC for underactuated mechanical systems subject to matched disturbances. International Journal of Robust and Nonlinear Control, 2017, 27, 1000-1016.	2.1	59

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73	Intrinsic dynamics and total energy-shaping control of the ballbot system. International Journal of Control, 2017, 90, 2734-2747.	1.2	6
74	Tracking elastic deformable objects with an RGB-D sensor for a pizza chef robot. Robotics and Autonomous Systems, 2017, 88, 187-201.	3.0	38
75	A novel force sensing integrated into the trocar for minimally invasive robotic surgery. , 2017, , .		30
76	Modelling and identification of the da Vinci Research Kit robotic arms. , 2017, , .		42
77	Modelling and Control of a Robotic Hulaâ€“hoop System without Velocity Measurements. IFAC-PapersOnLine, 2017, 50, 9808-9814.	0.5	3
78	A neuro-fuzzy-Bayesian approach for the adaptive control of robot proxemics behavior. , 2017, , .		7
79	A comparison of fuzzy approaches for training a humanoid robotic football player. , 2017, , .		0
80	Input predictive shaping for vibration control of flexible systems. , 2017, , .		6
81	Learning Grasps in a Synergy-based Framework. Springer Proceedings in Advanced Robotics, 2017, , 125-135.	0.9	3
82	Using Physical Modeling and RGB-D Registration for Contact Force Sensing on Deformable Objects. , 2017, , .		16
83	A coordinate-free framework for robotic pizza tossing and catching. , 2016, , .		15
84	A force-and-slippage control strategy for a poliarticulated prosthetic hand. , 2016, , .		18
85	Implementation of a soft-rigid collision detection algorithm in an open-source engine for surgical realistic simulation. , 2016, , .		4
86	A nonlinear finite element formalism for modelling flexible and soft manipulators. , 2016, , .		18
87	Synergy-based policy improvement with path integrals for anthropomorphic hands. , 2016, , .		27
88	Robust IDA-PBC for underactuated mechanical systems subject to matched disturbances. , 2016, , .		2
89	Human-Computer Interaction in Healthcare: How to Support Patients during Their Wrist Rehabilitation. , 2016, , .		16
90	Learning in robotic manipulation: The role of dimensionality reduction in policy search methods. Physics of Life Reviews, 2016, 17, 36-37.	1.5	3

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91	Robotics and the Handbook. Springer Handbooks, 2016, , 1-6.	0.3	28
92	Intrinsic Euler-Lagrange dynamics and control analysis of the ballbot. , 2016, , .		4
93	The Effect of Shapes in Input-State Linearization for Stabilization of Nonprehensile Planar Rolling Dynamic Manipulation. IEEE Robotics and Automation Letters, 2016, 1, 492-499.	3.3	16
94	Modeling a virtual robotic system for automated 3D digitization of cultural heritage artifacts. Journal of Cultural Heritage, 2016, 19, 531-537.	1.5	10
95	Redundancy Resolution in Human-Robot Co-manipulation with Cartesian Impedance Control. Springer Tracts in Advanced Robotics, 2016, , 165-176.	0.3	4
96	Design, Implementation and Experiments of a Robust Passivity-based Controller for a Rolling-balancing System. , 2016, , .		2
97	An Optimal Trajectory Planner for a Robotic Batting Task: The Table Tennis Example. , 2016, , .		8
98	Autonomous landing of rotary-wing aerial vehicles by image-based visual servoing in GPS-denied environments. , 2015, , .		6
99	Real-time tracking of 3D elastic objects with an RGB-D sensor. , 2015, , .		42
100	Variable Impedance Control of Redundant Manipulators for Intuitive Human-Robot Physical Interaction. IEEE Transactions on Robotics, 2015, 31, 850-863.	7.3	326
101	Tracking Fractures of Deformable Objects in Real-Time with an RGB-D Sensor. , 2015, , .		6
102	A Low-Cost Haptic System for Wrist Rehabilitation. , 2015, , .		13
103	Toward image-based visual servoing for cooperative aerial manipulation. , 2015, , .		7
104	A multilayer control for multicopter UAVs equipped with a servo robot arm. , 2015, , .		104
105	Robotic Ball Catching with an Eye-in-Hand Single-Camera System. IEEE Transactions on Control Systems Technology, 2015, 23, 1657-1671.	3.2	47
106	Design, modeling and control of a 5-DoF light-weight robot arm for aerial manipulation. , 2015, , .		73
107	Segmentation performance in tracking deformable objects via WNNs. , 2015, , .		10
108	Nonlinear Visual Control of Unmanned Aerial Vehicles in GPS-Denied Environments. IEEE Transactions on Robotics, 2015, 31, 1004-1017.	7.3	78

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109	Cartesian impedance control of redundant manipulators for human-robot co-manipulation. , 2014, , .		58
110	Image-based control for dynamically cross-coupled aerial manipulation. , 2014, , .		12
111	Experimental study on task space control during physical human robot interaction. , 2014, , .		3
112	The DEXMART hand: Mechatronic design and experimental evaluation of synergy-based control for human-like grasping. International Journal of Robotics Research, 2014, 33, 799-824.	5.8	133
113	Postural synergies of the UB Hand IV for human-like grasping. Robotics and Autonomous Systems, 2014, 62, 515-527.	3.0	41
114	Task-Space Control of Robot Manipulators With Null-Space Compliance. IEEE Transactions on Robotics, 2014, 30, 493-506.	7.3	134
115	Telerobotics and Systems Engineering for Scientific Facilities Editorial. International Journal of Advanced Robotic Systems, 2014, 11, 181.	1.3	0
116	Human Hand Motion Analysis and Synthesis of Optimal Power Grasps for a Robotic Hand. International Journal of Advanced Robotic Systems, 2014, 11, 37.	1.3	27
117	Experimental Evaluation of Synergy-Based In-Hand Manipulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 299-304.	0.4	15
118	Effects of Packet Losses on Formation Control of Unmanned Aerial Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1234-1240.	0.4	10
119	3D monocular robotic ball catching. Robotics and Autonomous Systems, 2013, 61, 1615-1625.	3.0	12
120	Robot Vision: Obstacle-Avoidance Techniques for Unmanned Aerial Vehicles. IEEE Robotics and Automation Magazine, 2013, 20, 22-31.	2.2	34
121	Fast localization and 3D mapping using an RGB-D sensor. , 2013, , .		6
122	A Grasping Force Optimization Algorithm for Multiarm Robots With Multifingered Hands. IEEE Transactions on Robotics, 2013, 29, 55-67.	7.3	33
123	Adaptive behavior-based control for robot navigation: A multi-robot case study. , 2013, , .		3
124	Visual Grasp Planning for Unknown Objects Using a Multifingered Robotic Hand. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1050-1059.	3.7	91
125	The ECHORD project proposals analysis â€ Research profiles, collaboration patterns and research topic trends. Expert Systems With Applications, 2013, 40, 7132-7140.	4.4	4
126	Multi-fingered grasp synthesis based on the object dynamic properties. Robotics and Autonomous Systems, 2013, 61, 626-636.	3.0	12



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127	Exploiting Image Moments for Aerial Manipulation Control. , 2013, , .		9
128	Null-Space Impedance Control For Physical Human-Robot Interaction. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , 193-200.	0.3	2
129	Mapping Grasps from the Human Hand to the DEXMART Hand by Means of Postural Synergies and Vision. Springer Tracts in Advanced Robotics, 2013, , 515-529.	0.3	3
130	Dynamic multi-priority control in redundant robotic systems. Robotica, 2013, 31, 1155-1167.	1.3	47
131	Pose estimation algorithm for hand assessment. , 2013, , .		0
132	Visual and inertial multi-rate data fusion for motion estimation via Pareto-optimization. , 2013, , .		1
133	Velocity-free image-based control of Unmanned Aerial Vehicles. , 2013, , .		18
134	Robust pose estimation algorithm for wrist motion tracking. , 2013, , .		13
135	A model-based strategy for mapping human grasps to robotic hands using synergies. , 2013, , .		10
136	Postural Synergies and Neural Network for Autonomous Grasping: A Tool for Dexterous Prosthetic and Robotic Hands. Biosystems and Biorobotics, 2013, , 467-480.	0.2	8
137	Real-Time Estimation of Planar Surfaces in Arbitrary Environments Using Microsoft Kinect Sensor. Lecture Notes in Computer Science, 2013, , 552-561.	1.0	0
138	A Robust Hand Pose Estimation Algorithm for Hand Rehabilitation. Lecture Notes in Computer Science, 2013, , 1-10.	1.0	5
139	Planning and control during reach to grasp using the three predominant UB hand IV postural synergies. , 2012, , .		20
140	A grasping force optimization algorithm for dexterous robotic hands. , 2012, , .		12
141	European Commission, Industry, and Academia Commit to Bigger and Better Robotics Sector [Regional]. IEEE Robotics and Automation Magazine, 2012, 19, 90-91.	2.2	0
142	Null-space impedance control with disturbance observer. , 2012, , .		22
143	The SHERPA project: Smart collaboration between humans and ground-aerial robots for improving rescuing activities in alpine environments. , 2012, , .		84
144	Wall inspection control of a VTOL unmanned aerial vehicle based on a stereo optical flow. , 2012, , .		21

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145	Aerial Service Robots: An overview of the AIRobots activity. , 2012, , .		8
146	Priority oriented adaptive control of kinematically redundant manipulators. , 2012, , .		8
147	Aerial service robotics: The AIRobots perspective. , 2012, , .		33
148	Patient performance evaluation using Kinect and Monte Carlo-based finger tracking. , 2012, , .		26
149	A bio-inspired grasp optimization algorithm for an anthropomorphic robotic hand. International Journal on Interactive Design and Manufacturing, 2012, 6, 113-122.	1.3	17
150	Biomechanically-based motion control for a digital human. International Journal on Interactive Design and Manufacturing, 2012, 6, 1-13.	1.3	13
151	Grasping and Control of Multi-Fingered Hands. Springer Tracts in Advanced Robotics, 2012, , 219-266.	0.3	15
152	Validation of a Power Grasping Algorithm for an Anthropomorphic Robotic Hand on the Basis of Human Grasping Action. , 2012, , 91-98.		1
153	MAV indoor navigation based on a closed-form solution for absolute scale velocity estimation using Optical Flow and inertial data. , 2011, , .		35
154	Experimental validation of a reach-and grasp optimization algorithm inspired to human arm-hand control. , 2011, 2011, 8150-3.		0
155	A grasping force optimization algorithm with dynamic torque constraints selection for multi-fingered robotic hands. , 2011, , .		3
156	Online dextrous-hand grasping force optimization with dynamic torque constraints selection. , 2011, , .		9
157	Multi-priority control in redundant robotic systems. , 2011, , .		4
158	Experimental evaluation of postural synergies during reach to grasp with the UB hand IV. , 2011, , .		4
159	ECHORD-The new face of academia-industry collaboration in European robotics [Industrial Activities. IEEE Robotics and Automation Magazine, 2010, 17, 21-22.	2.2	4
160	Preshaped visual grasp of unknown objects with a multi-fingered hand. , 2010, , .		7
161	Fast multi-fingered grasp synthesis based on object dynamic properties. , 2010, , .		8
162	A Framework for Force and Visual Control of Robot Manipulators. Springer Tracts in Advanced Robotics, 2010, , 373-382.	0.3	2

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163	Force and Visual Control for Safe Human-Robot Interaction. Advances in Intelligent and Soft Computing, 2010, , 1-16.	0.2	1
164	Building a bridge to the future [President's Message]. IEEE Robotics and Automation Magazine, 2009, 16, 4-8.	2.2	0
165	All You Can mIEEEt [President's Message]. IEEE Robotics and Automation Magazine, 2009, 16, 4-10.	2.2	0
166	The RAS of work and play [Presiden''s Message]. IEEE Robotics and Automation Magazine, 2009, 16, 4, 6-6, 8, 10.	2.2	0
167	Flying [President's Message]. IEEE Robotics and Automation Magazine, 2009, 16, 4-12.	2.2	1
168	Human-aware Interaction Control of Robot Manipulators Based on Force and Vision. Lecture Notes in Control and Information Sciences, 2009, , 209-225.	0.6	1
169	An atlas of physical humanâ€“robot interaction. Mechanism and Machine Theory, 2008, 43, 253-270.	2.7	634
170	The skeleton algorithm for self-collision avoidance of a humanoid manipulator. , 2007, , .		45
171	THE ROLE OF EULER PARAMETERS IN ROBOT CONTROL. Asian Journal of Control, 1999, 1, 25-34.	1.9	41
172	Resolved-acceleration control of robot manipulators: A critical review with experiments. Robotica, 1998, 16, 565-573.	1.3	87
173	Second-order kinematic control of robot manipulators with Jacobian damped least-squares inverse: theory and experiments. IEEE/ASME Transactions on Mechatronics, 1997, 2, 188-194.	3.7	70
174	A general framework for managing multiple tasks in highly redundant robotic systems. , 1991, , .		401
175	A closedâ€“loop jacobian transpose scheme for solving the inverse kinematics of nonredundant and redundant wrists. Journal of Field Robotics, 1989, 6, 601-630.	0.7	17
176	Spatial impedance control of redundant manipulators. , 0, , .		21