

Marcelo H Ang

List of Publications by Year in descending order

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219
papers

4,671
citations

236925

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h-index

149698

56
g-index

226
all docs

226
docs citations

226
times ranked

4288
citing authors

#	ARTICLE	IF	CITATIONS
1	Motion Planning for Mobile Manipulators—A Systematic Review. <i>Machines</i> , 2022, 10, 97.	2.2	36
2	Guidelines for Robot-to-Human Handshake From the Movement Nuances in Human-to-Human Handshake. <i>Frontiers in Robotics and AI</i> , 2022, 9, 758519.	3.2	4
3	Online Obstacle Trajectory Prediction for Autonomous Buses. <i>Machines</i> , 2022, 10, 202.	2.2	5
4	BIMS-PU: Bi-Directional and Multi-Scale Point Cloud Upsampling. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7447-7454.	5.1	3
5	Maximal Performance of an Antagonistically Coupled Dielectric Elastomer Actuator System. <i>Soft Robotics</i> , 2021, 8, 200-212.	8.0	7
6	Cascaded Refinement Network for Point Cloud Completion with Self-supervision. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, PP, 1-1.	13.9	10
7	Development and Grasp Stability Estimation of Sensorized Soft Robotic Hand. <i>Frontiers in Robotics and AI</i> , 2021, 8, 619390.	3.2	10
8	Fabrication of Pressure Sensor Using Electrospinning Method for Robotic Tactile Sensing Application. <i>Nanomaterials</i> , 2021, 11, 1320.	4.1	13
9	A Novel Link Failure Detection and Switching Algorithm for Dissimilar Redundant UAV Communication. <i>Drones</i> , 2021, 5, 48.	4.9	4
10	Robust Object Tracking Algorithm for Autonomous Vehicles in Complex Scenes. <i>Remote Sensing</i> , 2021, 13, 3234.	4.0	11
11	Autonomous Navigation in Dynamic Environments with Multi-Modal Perception Uncertainties. , 2021, , .		2
12	Effect of different prestretching index and preloading on actuation behaviors of dielectric elastomer actuator. <i>Journal of Materials Research and Technology</i> , 2021, 15, 4064-4073.	5.8	10
13	Multi-Scale Feature Aggregation by Cross-Scale Pixel-to-Region Relation Operation for Semantic Segmentation. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5889-5896.	5.1	5
14	Soft Robotic Pad Maturing for Practical Applications. <i>Soft Robotics</i> , 2020, 7, 30-43.	8.0	23
15	Fiber pattern optimization for soft robotic pad. <i>Extreme Mechanics Letters</i> , 2020, 41, 101055.	4.1	7
16	Real-Time Visual-Inertial Localization Using Semantic Segmentation Towards Dynamic Environments. <i>IEEE Access</i> , 2020, 8, 155047-155059.	4.2	13
17	Dynamic Identification of the KUKA LBR iiwa Robot With Retrieval of Physical Parameters Using Global Optimization. <i>IEEE Access</i> , 2020, 8, 108018-108031.	4.2	25
18	Shape Prior Deformation for Categorical 6D Object Pose and Size Estimation. <i>Lecture Notes in Computer Science</i> , 2020, , 530-546.	1.3	53

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19	Context-Aware Intention and Trajectory Prediction for Urban Driving Environment. Springer Proceedings in Advanced Robotics, 2020, , 339-349.	1.3	1
20	Safe Path Planning with Multi-Model Risk Level Sets. , 2020, , .		5
21	2D3D-Matchnet: Learning To Match Keypoints Across 2D Image And 3D Point Cloud. , 2019, , .		51
22	Learning Low-Rank Images for Robust All-Day Feature Matching. , 2019, , .		0
23	Shape Programming Using Triangular and Rectangular Soft Robot Primitives. Micromachines, 2019, 10, 236.	2.9	2
24	Target-driven Model Learning for Collision-aware Planar Object Pushing. , 2019, , .		0
25	Socially-Acceptable Walking Parameters for Wheelchair Automation. , 2019, , .		2
26	A Convolutional Network for Joint Deraining and Dehazing from A Single Image for Autonomous Driving in Rain. , 2019, , .		12
27	Safe Path Planning with Gaussian Process Regulated Risk Map. , 2019, , .		11
28	Multi-class Fleet Sizing and Mobility on Demand Service. Advances in Intelligent Systems and Computing, 2019, , 37-49.	0.6	3
29	Autonomous Exploration and Mapping System Using Heterogeneous UAVs and UGVs in GPS-Denied Environments. IEEE Transactions on Vehicular Technology, 2019, 68, 1339-1350.	6.3	130
30	Improved Fabrication of Soft Robotic Pad for Wearable Assistive Devices. Biosystems and Biorobotics, 2019, , 401-405.	0.3	0
31	Work with me, not for me: Relationship between robotic assistance and performance in subacute and chronic stroke patients. Journal of Rehabilitation and Assistive Technologies Engineering, 2019, 6, 205566831988158.	0.9	1
32	Towards Precise Vehicle-Free Point Cloud Mapping: An On-vehicle System with Deep Vehicle Detection and Tracking. , 2018, , .		3
33	Robust LIDAR Localization for Autonomous Driving in Rain. , 2018, , .		19
34	A 3D Convolutional Neural Network Towards Real-Time Amodal 3D Object Detection. , 2018, , .		5
35	Vehicle Detection, Tracking and Behavior Analysis in Urban Driving Environments Using Road Context. , 2018, , .		14
36	A General Pipeline for 3D Detection of Vehicles. , 2018, , .		91

#	ARTICLE	IF	CITATIONS
37	Conditional Compatibility Branch and Bound for Feature Cloud Matching. , 2018, , .		1
38	Active Path Clearing Navigation through Environment Reconfiguration in Presence of Movable Obstacles. , 2018, , .		7
39	Scene Recognition and Object Detection in a Unified Convolutional Neural Network on a Mobile Manipulator. , 2018, , .		16
40	Displacement improvement from variable pre-stretch diaphragm type Dielectric Elastomer Actuator. , 2018, , .		1
41	A Force Control Method with Positive Feedback for Industrial Finishing Applications. , 2018, , .		6
42	Design and control of an end-effector for industrial finishing applications. Robotics and Computer-Integrated Manufacturing, 2018, 53, 240-253.	9.9	37
43	Numerical Approach to Reachability-Guided Sampling-Based Motion Planning Under Differential Constraints. IEEE Robotics and Automation Letters, 2017, 2, 1232-1239.	5.1	15
44	A Two-Stage Optimized Next-View Planning Framework for 3-D Unknown Environment Exploration, and Structural Reconstruction. IEEE Robotics and Automation Letters, 2017, 2, 1680-1687.	5.1	67
45	Force Measurement Toward the Instability Theory of Soft Pneumatic Actuators. IEEE Robotics and Automation Letters, 2017, 2, 985-992.	5.1	36
46	Stiffness Customization and Patterning for Property Modulation of Silicone-Based Soft Pneumatic Actuators. Soft Robotics, 2017, 4, 251-260.	8.0	74
47	Design and fabrication of a shape-morphing soft pneumatic actuator: Soft robotic pad. , 2017, , .		14
48	Car detection for autonomous vehicle: LIDAR and vision fusion approach through deep learning framework. , 2017, , .		43
49	Intelligent robotic system for autonomous exploration and active SLAM in unknown environments. , 2017, , .		5
50	A hybrid approach of candidate region extraction for robust traffic light recognition. , 2017, , .		5
51	A parallel autonomy research platform. , 2017, , .		18
52	Control and modeling of an end-effector in a macro-mini manipulator system for industrial applications. , 2017, , .		10
53	Trajectory optimization for autonomous overtaking with visibility maximization. , 2017, , .		32
54	Obstacle-guided informed planning towards robot navigation in cluttered environments. , 2017, , .		3

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55	Semantic mapping and semantics-boosted navigation with path creation on a mobile robot. , 2017, , .		7
56	Fabric-based actuator modules for building soft pneumatic structures with high payload-to-weight ratio. , 2017, , .		17
57	Perception, Planning, Control, and Coordination for Autonomous Vehicles. Machines, 2017, 5, 6.	2.2	397
58	Connected Cooperative Control of Autonomous Vehicles During Unexpected Road Situations. Mechanical Engineering, 2017, 139, S3-S7.	0.1	3
59	Realizing Robust Control of Autonomous Vehicles. Springer Proceedings in Advanced Robotics, 2017, , 374-386.	1.3	1
60	Multi-class autonomous vehicles for mobility-on-demand service. , 2016, , .		10
61	Detection and state estimation of moving objects on a moving base for indoor navigation. , 2016, , .		1
62	Pedestrian Notification Methods in Autonomous Vehicles for Multi-Class Mobility-on-Demand Service. , 2016, , .		34
63	System integration: Application towards autonomous navigation in cluttered environments. , 2016, , .		3
64	An Impedance Controller for Surface Alignment. , 2016, , .		0
65	Fast Joint Compatibility Branch and Bound for feature cloud matching. , 2016, , .		7
66	Traffic light status detection using movement patterns of vehicles. , 2016, , .		10
67	Autonomous personal mobility scooter for multi-class mobility-on-demand service. , 2016, , .		14
68	Design and control of an end-effector module for industrial finishing applications. , 2016, , .		5
69	Geometric path tracking algorithm for autonomous driving in pedestrian environment. , 2016, , .		20
70	Modelling and control of a 2-link mobile manipulator with virtual prototyping. , 2016, , .		5
71	A force control structure based on the concept of virtual plant. , 2016, , .		0
72	Teleoperation of On-Road Vehicles via Immersive Telepresence Using Off-the-shelf Components. Advances in Intelligent Systems and Computing, 2016, , 1419-1433.	0.6	23

#	ARTICLE	IF	CITATIONS
73	An Integrated Software Package for Advanced Industrial Robot Applications. Mechanisms and Machine Science, 2016, , 261-269.	0.5	2
74	Scalable Cooperative Localization with Minimal Sensor Configuration. Springer Tracts in Advanced Robotics, 2016, , 89-104.	0.4	4
75	A generalized underactuated robot system inversion method using Hamiltonian formalism. , 2015, , .		1
76	Autonomous golf cars for public trial of mobility-on-demand service. , 2015, , .		32
77	Situation-aware decision making for autonomous driving on urban road using online POMDP. , 2015, , .		62
78	Self-driving vehicle acknowledgement of pedestrian presence conveyed via Light-Emitting Diodes. , 2015, , .		6
79	Mid-ranging control of a macro/mini manipulator. , 2015, , .		8
80	Achieving mobility on demand using autonomous vehicles. , 2015, , .		0
81	Bounds for Kalman filtering with intermittent observations. , 2015, , .		4
82	Probabilistic road context inference for autonomous vehicles. , 2015, , .		4
83	Autonomous vehicle planning system design under perception limitation in pedestrian environment. , 2015, , .		11
84	A preliminary study of the RADOE project. , 2015, , .		0
85	Efficient L-shape fitting of laser scanner data for vehicle pose estimation. , 2015, , .		24
86	Real-time human-robot interaction in complex environment using kinect v2 image recognition. , 2015, , .		11
87	Customizable soft pneumatic finger actuators for hand orthotic and prosthetic applications. , 2015, , .		28
88	The Impact of Cooperative Perception on Decision Making and Planning of Autonomous Vehicles. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 39-50.	3.8	90
89	Multi-vehicle motion coordination using V2V communication. , 2015, , .		14
90	Multivehicle Cooperative Driving Using Cooperative Perception: Design and Experimental Validation. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 663-680.	8.0	172

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91	Nonlinear Double-Integral Observer and Application to Quadrotor Aircraft. IEEE Transactions on Industrial Electronics, 2015, 62, 1189-1200.	7.9	72
92	Vehicle Autonomy Using Cooperative Perception for Mobility-on-Demand Systems. Mechanisms and Machine Science, 2015, , 331-360.	0.5	3
93	Sensor fusion for localization, mapping and navigation in an indoor environment. , 2014, , .		7
94	Spatio-temporal motion features for laser-based moving objects detection and tracking. , 2014, , .		7
95	Cooperative autonomous driving using cooperative perception and mirror neuron inspired intention awareness. , 2014, , .		6
96	An online approach for intersection navigation of autonomous vehicle. , 2014, , .		5
97	Stability of switched linear systems under dwell time switching with piece wise quadratic functions. , 2014, , .		1
98	Vehicle motion intention reasoning using cooperative perception on urban road. , 2014, , .		22
99	Hamiltonian exploitation in underactuated robot system inversion. , 2014, , .		1
100	Learning pedestrian activities for semantic mapping. , 2014, , .		5
101	Incremental sampling-based algorithm for risk-aware planning under motion uncertainty. , 2014, , .		33
102	A Survey on Perception Methods for Human-Robot Interaction in Social Robots. International Journal of Social Robotics, 2014, 6, 85-119.	4.6	100
103	A Bayesian filtering approach to incorporate 2D/3D time-lapse confocal images for tracking angiogenic sprouting cells interacting with the gel matrix. Medical Image Analysis, 2014, 18, 211-227.	11.6	7
104	Why Robots? A Survey on the Roles and Benefits of Social Robots in the Therapy of Children with Autism. International Journal of Social Robotics, 2013, 5, 593-618.	4.6	413
105	General framework of the force and compliant motion control for macro mini manipulator. , 2013, , .		12
106	Adaptive optimal control for linear discrete time-varying systems. , 2013, , .		1
107	A general framework for road marking detection and analysis. , 2013, , .		20
108	Road detection and mapping using 3D rolling window. , 2013, , .		6

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109	Motion planning using cooperative perception on urban road. , 2013, , .		17
110	Synthetic 2D LIDAR for precise vehicle localization in 3D urban environment. , 2013, , .		70
111	Metric mapping and topo-metric graph learning of urban road network. , 2013, , .		4
112	Mapping with synthetic 2D LIDAR in 3D urban environment. , 2013, , .		26
113	Cooperative perception for autonomous vehicle control on the road: Motivation and experimental results. , 2013, , .		18
114	Improving Positioning Accuracy using a General Framework for Macro Mini Manipulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 225-230.	0.4	0
115	Mechanism of a Learning Robot Manipulator for Laparoscopic Surgical Training. Advances in Intelligent Systems and Computing, 2013, , 17-26.	0.6	8
116	Design of a Sensing Limited Autonomous Robotic System. Advances in Intelligent Systems and Computing, 2013, , 641-648.	0.6	0
117	Autonomy for mobility on demand. , 2012, , .		22
118	Curb-intersection feature based Monte Carlo Localization on urban roads. , 2012, , .		51
119	Utilizing the infrastructure to assist autonomous vehicles in a mobility on demand context. , 2012, , .		10
120	Adaptive discriminative metric learning for facial expression recognition. IET Biometrics, 2012, 1, 160-167.	2.5	11
121	Dorothy Robotubby: A Robotic Nanny. Lecture Notes in Computer Science, 2012, , 118-127.	1.3	0
122	Passive Dynamic Analysis: Motivation for Use and Method Extension. , 2012, , .		0
123	Automated tracking of biological cells in an “in-vitro” environment using active contours and distance measures. , 2011, , .		0
124	Cross-dataset facial expression recognition. , 2011, , .		5
125	Human motion tracking in a wireless network of mobile and static sensors. , 2011, , .		1
126	Neuro-adaptive motion control with velocity observer in operational space formulation. Robotics and Computer-Integrated Manufacturing, 2011, 27, 829-842.	9.9	9

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127	Stochastic tracking of migrating live cells interacting with 3D gel environment using augmented-space particle filters. , 2011, , .		1
128	Simultaneous tracking of cell nuclei and conduit parameters from time-lapse confocal microscopy images. , 2011, , .		1
129	Weighted biased linear discriminant analysis for misalignment-robust facial expression recognition. , 2011, , .		0
130	Stochastic tracking of migrating live cells interacting with 3D gel environment using augmented-space particle filters. , 2011, , .		0
131	Stochastic optimization of a chain sliding mode controller for the mobile robot maneuvering. , 2011, , .		0
132	A Brain Controlled Wheelchair to Navigate in Familiar Environments. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 590-598.	4.9	449
133	An analysis of the operational space control of robots. , 2010, , .		4
134	Mobile sensing and simultaneously node localization in wireless sensor networks for human motion tracking. , 2010, , .		4
135	Tracking of cell population from time lapse and end point confocal microscopy images with multiple hypothesis Kalman smoothing filters. , 2010, , .		8
136	Motion Planning for 3-D Target Tracking among Obstacles. Springer Tracts in Advanced Robotics, 2010, , 267-279.	0.4	5
137	Probabilistic Ants (PAnts) in Multi-Agent Patrolling. , 2009, , .		10
138	Resource constrained particle filtering for real-time multi-target tracking in sensor networks. , 2009, , .		2
139	Multi-rate operational space control of compliant motion in robotic manipulators. , 2009, , .		6
140	Optimization of Mechatronic Design Quotient Using Genetic Algorithm in Vibration Controllers for Flexible Beams. JVC/Journal of Vibration and Control, 2009, 15, 1603-1626.	2.6	6
141	Detection of Activities by Wireless Sensors for Daily Life Surveillance: Eating and Drinking. Sensors, 2009, 9, 1499-1517.	3.8	43
142	Singularity robust algorithm in serial manipulators. Robotics and Computer-Integrated Manufacturing, 2009, 25, 122-134.	9.9	61
143	Local Voronoi Decomposition for multi-agent task allocation. , 2009, , .		14
144	The Matrix-Based Framework: Its Role as a Job-Agent Supervisory Controller. Advanced Robotics, 2009, 23, 1663-1686.	1.8	2

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145	Motion Strategies for People Tracking in Cluttered and Dynamic Environments. Springer Tracts in Advanced Robotics, 2009, , 463-472.	0.4	6
146	Technology Management Educational Initiatives in Asia: A Case Study From the National University of Singapore. Academy of Management Learning and Education, 2009, 8, 444-456.	2.5	4
147	Detection of activities for daily life surveillance: Eating and drinking. , 2008, , .		20
148	Singularity-Free Joint Actuation in Omnidirectional Mobile Platforms With Powered Offset Caster Wheels. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	7
149	Slip modelling, detection and control for redundantly actuated wheeled mobile robots. , 2008, , .		2
150	Evaluation and optimization of passive vibration controller design for flexible beams. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	0
151	Parallel force and motion control using adaptive observer-controller. , 2008, , .		0
152	An energy efficient cooperative optimal harvesting algorithm for Mobile Sensor Networks. , 2008, , .		0
153	Particle filter for target tracking in multi-modality wireless sensor networks. , 2008, , .		3
154	The Operational Space Formulation with Neural-Network Adaptive Motion Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12775-12780.	0.4	2
155	Neuro-Adaptive Motion Controller with Velocity Observer for Operational Space Formulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13755-13760.	0.4	0
156	Robotics: The New Emerging Applications. , 2008, , .		0
157	An Integrated Algorithm for Autonomous Navigation of a Mobile Robot in an Unknown Environment. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2008, 12, 328-335.	0.9	1
158	Job-agents: How to coordinate them?. , 2007, , .		0
159	Design of Vibration Controllers for Flexible Beams Using the Mechatronic Design Quotient (MDQ) Approach. JVC/Journal of Vibration and Control, 2007, 13, 65-94.	2.6	3
160	Controlling a wheelchair using a BCI with low information transfer rate. , 2007, , .		39
161	Controlling a Wheelchair Indoors Using Thought. IEEE Intelligent Systems, 2007, 22, 18-24.	4.0	211
162	Appearance-based SLAM with map loop closing using an omnidirectional camera. , 2007, , .		6

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163	IMM Filter based Sensor Scheduling for Maneuvering Target Tracking in Wireless Sensor Networks. , 2007, , .		11
164	Trajectory generation for open-contoured structures in robotic fibre placement. Robotics and Computer-Integrated Manufacturing, 2007, 23, 380-394.	9.9	84
165	Multi-robot mobility enhanced hop-count based localization in ad hoc networks. Robotics and Autonomous Systems, 2007, 55, 244-252.	5.1	26
166	Multi-Robot Concurrent Learning in Museum Problem. , 2007, , 65-74.		0
167	Mechatronic Design Quotient Approach in Beam Vibration Suppression Design using Linear Dampers. , 2006, , .		0
168	Autonomic mobile sensor network with self-coordinated task allocation and execution. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 315-327.	2.9	44
169	Multi-robot concurrent learning of cooperative behaviours for the tracking of multiple moving targets. International Journal of Vehicle Autonomous Systems, 2006, 4, 196.	0.2	3
170	A Virtual Reality Simulator for Remote Interventional Radiology: Concept and Prototype Design. IEEE Transactions on Biomedical Engineering, 2006, 53, 1696-1700.	4.2	11
171	Omnidirectional Image Matching for Vision-Based Robot Localization. , 2006, , .		10
172	Vehicle Dynamics of Redundant Mobile Robots with Powered Caster Wheels. , 2006, , 221-228.		9
173	Matrix-based Supervisory Controller of Transition-Function Specified Robot Controllers. , 2006, , 229-236.		0
174	An Ensemble of Cooperative Extended Kohonen Maps for Complex Robot Motion Tasks. Neural Computation, 2005, 17, 1411-1445.	2.2	17
175	Omnidirectional mobile robots with powered caster wheels: design guidelines from kinematic isotropy analysis. , 2005, , .		6
176	TOWARDS PERVASIVE ROBOTICS: COMPLIANT MOTION IN HUMAN ENVIRONMENTS. International Journal of Software Engineering and Knowledge Engineering, 2005, 15, 135-145.	0.8	4
177	Robust observer-based controller and its application in robot control. , 2005, , .		1
178	Reinforcement learning of cooperative behaviors for multi-robot tracking of multiple moving targets. , 2005, , .		3
179	Compliant motion using a mobile manipulator: an operational space formulation approach to aircraft canopy polishing. Advanced Robotics, 2005, 19, 613-634.	1.8	26
180	Adaptive Friction Compensation for Operational Space Tracking Control with Global Asymptotic Stability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 181-186.	0.4	0

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181	A Searching and Tracking Framework for Multi-Robot Observation of Multiple Moving Targets. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2004, 8, 14-22.	0.9	4
182	Integration of Soft Computing Towards Autonomous Legged Robots. Studies in Fuzziness and Soft Computing, 2003, , 323-352.	0.8	2
183	A mathematical model for a pneumatically actuated robotic fibre placement system. Robotica, 2002, 20, 545-551.	1.9	13
184	A Flexible Control Architecture for Mobile Robots: An Application for a Walking Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2001, 30, 29-48.	3.4	11
185	Singularity Handling on Puma in Operational Space Formulation. Lecture Notes in Control and Information Sciences, 2001, , 491-500.	1.0	9
186	High-bandwidth macro/microactuation for hard-disk drive. , 2000, , .		6
187	Tip-trajectory tracking control of single-link flexible robots by output redefinition. IET Control Theory and Applications, 2000, 147, 580-587.	1.7	25
188	A walk-through programmed robot for welding in shipyards. Industrial Robot, 1999, 26, 377-388.	2.1	51
189	<title>Machines accessed via Internet issues and architecture</title>. , 1999, , .		0
190	Control of a tip-loaded flexible-link robot using shaped input command. , 1998, , .		0
191	<title>Telemufacturing workcell over the Internet</title>. , 1998, 3524, 230.		2
192	A modal feedback control law for vibration control of multi-link flexible robots. , 1998, , .		2
193	On the Design of Joint Trajectory for a Flexible-Link Robot. , 1998, , 22.		0
194	Passive Compliance from Robot Limbs and its Usefulness in Robotic Automation. Journal of Intelligent and Robotic Systems: Theory and Applications, 1997, 20, 1-21.	3.4	15
195	Critical issues in robotics. Robotics and Autonomous Systems, 1997, 21, iii-iv.	5.1	0
196	A compliant end-effector coupling for vertical assembly: design and evaluation. Robotics and Computer-Integrated Manufacturing, 1997, 13, 21-30.	9.9	8
197	Task decoupling in robot manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 1995, 14, 283-302.	3.4	10
198	Specifying and achieving passive compliance based on manipulator structure. IEEE Transactions on Automation Science and Engineering, 1995, 11, 504-515.	2.3	50

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199	A neural network control system with parallel adaptive enhancements applicable to nonlinear servomechanisms. IEEE Transactions on Industrial Electronics, 1994, 41, 269-277.	7.9	15
200	Hybrid Position-Orientation Decoupling in Robot Manipulators. , 1994, , 329-338.		0
201	Identification and Analysis of Robot Manipulator Singularities. International Journal of Robotics Research, 1992, 11, 248-259.	8.5	30
202	Robot armâ€wrist coordination. Part 1. Quantitative rating. Journal of Field Robotics, 1990, 7, 167-180.	0.7	3
203	Robot armâ€wrist coordination. Part 2. Design guidelines. Journal of Field Robotics, 1990, 7, 181-195.	0.7	0
204	A modular architecture for inverse robot kinematics. IEEE Transactions on Automation Science and Engineering, 1989, 5, 555-568.	2.3	26
205	Analysis and design of robotic manipulators with multiple interchangeable wrists. IEEE Transactions on Automation Science and Engineering, 1989, 5, 223-230.	2.3	11
206	Singularities of Euler and Roll-Pitch-Yaw Representations. IEEE Transactions on Aerospace and Electronic Systems, 1987, AES-23, 317-324.	4.7	36
207	Generalâ€purpose inverse kinematics transformations for robotic manipulators. Journal of Field Robotics, 1987, 4, 527-549.	0.7	14
208	NN controller of the constrained robot under unknown constraint. , 0, , .		4
209	Observations and guidelines on interpolation with radial basis function network for one dimensional approximation problem. , 0, , .		1
210	Singularity robust manipulator control using virtual joints. , 0, , .		8
211	The Operational Space Formulation implementation to aircraft canopy polishing using a mobile manipulator. , 0, , .		16
212	Multiple-UUV Approach for Enhancing Connectivity in Underwater Ad-hoc Sensor Networks. , 0, , .		22
213	Unified force and motion control using an open system real-time architecture on a 7 DOF PA-10 robot. , 0, , .		1
214	Torque distribution and slip minimization in an omnidirectional mobile base. , 0, , .		5
215	Visibility-based exploration in unknown environment containing structured obstacles. , 0, , .		5
216	A Brain-Controlled Wheelchair Based on P300 and Path Guidance. , 0, , .		69

#	ARTICLE	IF	CITATIONS
217	TARANTULAS: Mobility-enhanced Wireless Sensor-Actuator Networks. , 0, , .		6
218	A greedy strategy for tracking a locally predictable target among obstacles. , 0, , .		24
219	Wheel-ground interaction modelling and torque distribution for a redundant mobile robot. , 0, , .		2