

I-Ming Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

257
papers

3,808
citations

33
h-index

49
g-index

318
ext. papers

4,699
ext. citations

3.6
avg, IF

5.55
L-index

#	Paper	IF	Citations
257	Graph Wasserstein Autoencoder-Based Asymptotically Optimal Motion Planning With Kinematic Constraints for Robotic Manipulation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-14	4.9	
256	Repelling-screw-based geometrical interpretation of dualities of compliant mechanisms. <i>Mechanism and Machine Theory</i> , 2022 , 169, 104636	4	1
255	On the Disturbance Rejection Control of Flexible-joint Robot: A GPIO-based Approach. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 2910-2920	2.9	0
254	Real-Time Avoidance Strategy of Dynamic Obstacles via Half Model-Free Detection and Tracking With 2D Lidar for Mobile Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 2215-2225	5.5	4
253	Robust Output Feedback Tracking Control for Flexible-Joint Robots Based on CTSMC Technique. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 1982-1986	3.5	4
252	Finite element-based grasp analysis using contact pressure maps of a robotic gripper. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021 , 43, 1	2	1
251	Finite-time disturbance observer-based trajectory tracking control for flexible-joint robots. <i>Nonlinear Dynamics</i> , 2021 , 106, 459-471	5	1
250	Continuous Terminal Sliding-Mode Control for FJR Subject to Matched/Mismatched Disturbances. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	2
249	Object Pose Estimation via Pruned Hough Forest With Combined Split Schemes for Robotic Grasp. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 1-8	4.9	4
248	Flexible telemanipulation based handy robot teaching on tape masking with complex geometry. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020 , 66, 101990	9.2	6
247	Nonprehensile Manipulation:A Trajectory-Planning Perspective. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 1-1	5.5	3
246	Vision-Based Measurement and Prediction of Object Trajectory for Robotic Manipulation in Dynamic and Uncertain Scenarios. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 8939-8952	5.3	7
245	Design of a Novel Self-Balancing Mechanism on AGV for Stable Stair Climbing 2020 ,		1
244	A Telemanipulation-Based HumanRobot Collaboration Method to Teach Aerospace Masking Skills. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 3076-3084	11.9	18
243	High Torque Density Torque Motor With Hybrid Magnetization Pole Arrays for Jet Pipe Servo Valve. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2133-2142	8.9	8
242	Applications of Light-Weight Wearable Devices to Online Programming of Industrial Dual-Arm Robots. <i>Unmanned Systems</i> , 2020 , 08, 211-219	3	1
241	Uncertainty-Based IMU Orientation Tracking Algorithm for Dynamic Motions. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 872-882	5.5	24

240	Learning sampling distribution for motion planning with local reconstruction-based self-organizing incremental neural network. <i>Neural Computing and Applications</i> , 2019 , 31, 9185-9205	4.8	4
239	Enabling grasp action: Generalized quality evaluation of grasp stability via contact stiffness from contact mechanics insight. <i>Mechanism and Machine Theory</i> , 2019 , 134, 625-644	4	9
238	Guest Editorial Special Section on Emerging Information Sharing and Design Technologies on Robotics and Mechatronics Systems for Intelligent Manufacturing. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 1643-1646	11.9	2
237	Quantitative Assessment at Task-Level for Performance of Robotic Configurations and Task Plans. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 96, 439-456	2.9	5
236	QuicaBot: Quality Inspection and Assessment Robot. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 506-517	4.9	15
235	A Mirrored Motion Remapping Method in Telemanipulation-based Face-to-Face Dual-arm Robot Teaching 2019 ,		1
234	Real-Time Robotic Manipulation of Cylindrical Objects in Dynamic Scenarios Through Elliptic Shape Primitives. <i>IEEE Transactions on Robotics</i> , 2019 , 35, 95-113	6.5	18
233	Optimal facility layout planning for AGV-based modular prefabricated manufacturing system. <i>Automation in Construction</i> , 2019 , 98, 310-321	9.6	15
232	Accurate detection of ellipses with false detection control at video rates using a gradient analysis. <i>Pattern Recognition</i> , 2018 , 81, 112-130	7.7	27
231	Analysis With Histogram of Connectivity: For Automated Evaluation of Piping Layout. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018 , 15, 381-392	4.9	3
230	Automatic robot taping system with compliant force control. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 4105-4113	3.2	1
229	Geometric design optimization of an under-actuated tendon-driven robotic gripper. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018 , 50, 80-89	9.2	34
228	An Innovative Robotics Stowing Strategy For Inventory Replenishment In Automated Storage And Retrieval System 2018 ,		2
227	Efficient Pose Estimation from Single RGB-D Image via Hough Forest with Auto-Context 2018 ,		3
226	Learning with Corrosion Feature: For Automated Quantitative Risk Analysis of Corrosion Mechanism 2018 ,		1
225	Using a genetic algorithm to schedule the space-constrained AGV-based prefabricated bathroom units manufacturing system. <i>International Journal of Production Research</i> , 2018 , 1-17	7.8	17
224	A Robust Robot Design for Item Picking 2018 ,		8
223	Grasp analysis and optimal design of robotic fingertip for two tendon-driven fingers. <i>Mechanism and Machine Theory</i> , 2018 , 130, 447-462	4	8

222	Fast Ellipse Detection via Gradient Information for Robotic Manipulation of Cylindrical Objects. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 2754-2761	4.2	14
221	Pictobot: A Cooperative Painting Robot for Interior Finishing of Industrial Developments. <i>IEEE Robotics and Automation Magazine</i> , 2018 , 25, 82-94	3.4	32
220	Torque optimization of a novel reaction sphere actuator based on support vector machines 2018 ,		1
219	Analytical models of electromagnetic field and torques in a novel reaction sphere actuator 2018 ,		1
218	Programming a Robot for Conformance Grinding of Complex Shapes by Capturing the Tacit Knowledge of a Skilled Operator. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 1020-1030	4.9	24
217	A 3-DOF quick-action parallel manipulator based on four linkage mechanisms with high-speed cam. <i>Mechanism and Machine Theory</i> , 2017 , 115, 168-196	4	5
216	Transfer learning on convolutional activation feature as applied to a building quality assessment robot. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141771262	1.4	14
215	Visual marker-guided mobile robot solution for automated item picking in a warehouse 2017 ,		2
214	Capturing the tacit knowledge of the skilled operator to program tool paths and tool orientations for robot belt grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 1599-1618 ^{3.2}		10
213	Task-orientated robot teleoperation using wearable IMUs 2017 ,		2
212	Robust ellipse detection via arc segmentation and classification 2017 ,		6
211	Designing modular robotic architecture for e-commerce bin picking task fulfillment 2017 ,		1
210	A novel building post-construction quality assessment robot: Design and prototyping 2017 ,		2
209	Strategy for robot motion and path planning in robot taping. <i>Frontiers of Mechanical Engineering</i> , 2016 , 11, 195-203	3.3	4
208	A novel method for 3D reconstruction: Division and merging of overlapping B-spline surfaces. <i>CAD Computer Aided Design</i> , 2016 , 81, 14-23	2.9	8
207	Large-deflection statics analysis of active cardiac catheters through co-rotational modelling. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2133-2136	0.9	
206	Reliability and Validity of Skills and Needs Inventories in Functional Behavior Assessments and Interventions for School Personnel. <i>Journal of Special Education</i> , 2016 , 49, 233-242	1.4	3
205	Magnetic field modeling based on geometrical equivalence principle for spherical actuator with cylindrical shaped magnet poles. <i>Aerospace Science and Technology</i> , 2016 , 49, 17-25	4.9	10

204	Automatic Robot Taping: Strategy and Enhancement. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 439-448	0.6	
203	Innovations in Infrastructure Service Robots. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 3-16	0.6	4
202	2016 ,		6
201	Strategy-based robotic item picking from shelves 2016 ,		11
200	Autonomous mapping between motions and labels 2016 ,		1
199	Autonomous navigation of UAV by using real-time model-based reinforcement learning 2016 ,		46
198	Modular Robots 2016 , 531-542		10
197	An agile robot taping system [modeling, tool design, planning and execution. <i>Industrial Robot</i> , 2016 , 43, 503-512	1.4	6
196	Key Parameters Optimization of a Novel Tubular Double Excitation Windings Linear Switched Reluctance Motor. <i>Mechanisms and Machine Science</i> , 2015 , 201-206	0.3	
195	Flux Field and Thrust Analysis of Permanent-Magnet Linear Machines With Isolated Movers. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-8	2	2
194	Development and Simulation of an Automated Twistlock Handling Robot System. <i>Mechanisms and Machine Science</i> , 2015 , 145-153	0.3	0
193	Reconfigurable mechanism generated from the network of Bennett linkages. <i>Mechanism and Machine Theory</i> , 2015 , 88, 49-62	4	15
192	Equivalent energized coil model for magnetic field of permanent-magnet spherical actuators. <i>Sensors and Actuators A: Physical</i> , 2015 , 229, 68-76	3.9	13
191	Developing and benchmarking show & tell robotic puppet for preschool education 2015 ,		4
190	Novel tubular switched reluctance motor with double excitation windings: Design, modeling, and experiments. <i>Review of Scientific Instruments</i> , 2015 , 86, 125004	1.7	2
189	Modeling of magnetic field and design optimization for permanent-magnet spherical actuator in three dimensional space 2015 ,		1
188	Automatic robot taping: Auto-path planning and manipulation 2015 ,		4
187	Millimeters-Stroke Nanopositioning Actuator With High Positioning and Thermal Stability. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2813-2823	5.5	23

186	Automated construction quality assessment: A review 2015 ,		4
185	Analysis of kinematics and dynamics of snake-like robot with joints of 4-DOF 2015 ,		2
184	Automatic robot taping: system integration 2015 ,		6
183	An experimental characterization of human torso motion. <i>Frontiers of Mechanical Engineering</i> , 2015 , 10, 311-325	3.3	25
182	Design and modeling of tubular double excitation windings linear switched reluctance motor 2015 ,		1
181	A flexure-based electromagnetic nanopositioning actuator with predictable and re-configurable open-loop positioning resolution. <i>Precision Engineering</i> , 2015 , 40, 249-260	2.9	19
180	Compliant Manipulators 2015 , 2229-2300		1
179	An orientation measurement method based on Hall-effect sensors for permanent magnet spherical actuators with 3D magnet array. <i>Scientific Reports</i> , 2014 , 4, 6756	4.9	12
178	Algorithms of wavefront generation for aspheric surface measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 47, 465-474	4.6	0
177	Analytical and Numerical Investigation on the Magnetic Field of Novel PM Spherical Actuator with Outer Rotor 2014 ,		2
176	A tubular linear machine with dual Halbach array. <i>Engineering Computations</i> , 2014 , 31, 177-200	1.4	8
175	Armature Reaction Field and Inductance of Coreless Moving-Coil Tubular Linear Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6956-6965	8.9	59
174	A large deflection and high payload flexure-based parallel manipulator for UV nanoimprint lithography: Part II. Stiffness modeling and performance evaluation. <i>Precision Engineering</i> , 2014 , 38, 872-884	2.9	25
173	A large deflection and high payload flexure-based parallel manipulator for UV nanoimprint lithography: Part I. Modeling and analyses. <i>Precision Engineering</i> , 2014 , 38, 861-871	2.9	34
172	Accuracy enhancement of the spherical actuator with a two-level geometric calibration method. <i>Chinese Journal of Aeronautics</i> , 2014 , 27, 328-337	3.7	1
171	System and keyword dependent fusion for spoken term detection 2014 ,		4
170	Design and modeling of tubular flux-switching permanent magnet linear motor 2014 ,		2
169	Design and modeling of three-phase tubular linear flux-switching permanent magnet motor 2014 ,		2

168	Design and analysis of an improved Halbach tubular linear motor with non-ferromagnetic mover tube for direct-driven EHA 2014 ,		3
167	Novel permanent magnet linear motor with isolated movers: analytical, numerical and experimental study. <i>Review of Scientific Instruments</i> , 2014 , 85, 105007	1.7	10
166	Kinematic Study of the Original and Revised General Line-Symmetric Bricard 6R Linkages. <i>Journal of Mechanisms and Robotics</i> , 2014 , 6,	2.2	9
165	Reference-free beam-sampling system for freeform surface measurements. <i>Applied Optics</i> , 2014 , 53, H20-6	1.7	1
164	Interactive robots as social partner for communication care 2014 ,		3
163	A method for capturing the tacit knowledge in the surface finishing skill by demonstration for programming a robot 2014 ,		6
162	Analysis of magnet layout in circumferential and axial direction for halbach PM arrays 2014 ,		1
161	Localization and velocity tracking of human via 3 IMU sensors. <i>Sensors and Actuators A: Physical</i> , 2014 , 212, 25-33	3.9	38
160	Measurement of Arm and Hand Motion in Performing Activities of Daily Living (ADL) of Healthy and Post-Stroke Subjects Preliminary Results. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 1155-1162	0.2	
159	Kinematic Uncertainties in Human Motion Tracking and Interaction. <i>Mechanisms and Machine Science</i> , 2014 , 491-499	0.3	
158	Compliant Manipulators 2014 , 1-63		4
157	3-D Localization of Human Based on an Inertial Capture System. <i>IEEE Transactions on Robotics</i> , 2013 , 29, 806-812	6.5	35
156	Inertia sensor-based guidance system for upperlimb posture correction. <i>Medical Engineering and Physics</i> , 2013 , 35, 269-76	2.4	26
155	Human velocity tracking and localization using 3 IMU sensors 2013 ,		2
154	A 6R linkage reconfigurable between the line-symmetric Bricard linkage and the Bennett linkage. <i>Mechanism and Machine Theory</i> , 2013 , 70, 278-292	4	29
153	Adaptive centroid-finding algorithm for freeform surface measurements. <i>Applied Optics</i> , 2013 , 52, D75-837		9
152	Design and analysis of a cable-driven manipulator with variable stiffness 2013 ,		7
151	Compact piezoelectric micromotor with a single bulk lead zirconate titanate stator. <i>Applied Physics Letters</i> , 2013 , 102, 134106	3.4	8

150	Method to calibrate the skeleton model using orientation sensors 2013 ,		3
149	MAGNETIC FIELD OF TUBULAR LINEAR MACHINES WITH DUAL HALBACH ARRAY. <i>Progress in Electromagnetics Research</i> , 2013 , 136, 283-299	3.8	18
148	Portable Posture Guiding System With Visual, Verbal Feedback for Upper Extremity. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2013 , 127-134	0.6	2
147	Surface-to-surface calibration of acoustic emission sensors. <i>Sensors and Actuators A: Physical</i> , 2012 , 174, 16-23	3.9	4
146	Force formulation of a three-phase tubular linear machine with dual Halbach array 2012 ,		1
145	Human velocity and dynamic behavior tracking method for inertial capture system. <i>Sensors and Actuators A: Physical</i> , 2012 , 183, 123-131	3.9	26
144	Modeling and Iron-Effect Analysis on Magnetic Field and Torque Output of Electromagnetic Spherical Actuators With Iron Stator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012 , 17, 1080-1087	5.5	25
143	Planar jumping with stable landing through foot orientation design and ankle joint control. <i>Frontiers of Mechanical Engineering</i> , 2012 , 7, 100-108	3.3	3
142	Optimization of scanning strategy of digital Shack-Hartmann wavefront sensing. <i>Applied Optics</i> , 2012 , 51, 121-5	1.7	3
141	A novel two degree-of-freedom ultrasonic planar motor driven by single stator 2012 ,		3
140	Flux Field Formulation and Back-Iron Analysis of Tubular Linear Machines. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2617-2626	2	7
139	A compact 3-DOF compliant serial mechanism for trajectory tracking with flexures made by rapid prototyping 2012 ,		3
138	Directional vs non-directional modes of vibrotactile feedback for arm posture replication 2012 ,		2
137	Visual Cue and Vibrotactile in Series Configuration: Multimodal Feedback Design for Arm Posture Correction. <i>Journal of Medical Imaging and Health Informatics</i> , 2012 , 2, 430-437	1.2	2
136	SLAC: 3D localization of human based on kinetic human movement capture 2011 ,		10
135	Reference-free Shack-Hartmann wavefront sensor. <i>Optics Letters</i> , 2011 , 36, 2752-4	3	9
134	Simulation of the sensing performance of a Shack-Hartmann wavefront sensor related to the lenslet array. <i>Physics Procedia</i> , 2011 , 19, 188-191		
133	A Wearable Sensing System for Tracking and Monitoring of Functional Arm Movement. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 213-220	5.5	70

132	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 401-410	5.5	3
131	Hybrid torque modeling of spherical actuators with cylindrical-shaped magnet poles. <i>Mechatronics</i> , 2011 , 21, 85-91	3	20
130	Left Arm Up! Interactive Yoga training in virtual environment 2011 ,		8
129	Workspace evaluation of manipulators through finite-partition of SE(3). <i>Robotics and Computer-Integrated Manufacturing</i> , 2011 , 27, 850-859	9.2	11
128	Wearable wireless sensing system for capturing human arm motion. <i>Sensors and Actuators A: Physical</i> , 2011 , 166, 125-132	3.9	18
127	A novel approach for positional sensing of a spherical geometry. <i>Sensors and Actuators A: Physical</i> , 2011 , 168, 328-334	3.9	10
126	Analysis and design of a 3-DOF flexure-based zero-torsion parallel manipulator for nano-alignment applications 2011 ,		19
125	A Three Degree-of-Freedom Optical Orientation Measurement Method for Spherical Actuator Applications. <i>IEEE Transactions on Automation Science and Engineering</i> , 2011 , 8, 319-326	4.9	14
124	Strategies in vibrotactile feedback for improved upper arm posture mapping and replication using inertia sensors 2011 ,		3
123	Development of finger-motion capturing device based on optical linear encoder. <i>Journal of Rehabilitation Research and Development</i> , 2011 , 48, 69-82		50
122	Design, Modeling and Experiments of 3-DOF Electromagnetic Spherical Actuators. <i>Mechanisms and Machine Science</i> , 2011 ,	0.3	18
121	Puppet Playing: An Interactive Character Animation System with Hand Motion Control. <i>Lecture Notes in Computer Science</i> , 2011 , 19-35	0.9	0
120	Building Hand Motion-Based Character Animation: The Case of Puppetry 2010 ,		10
119	Spatial Representation of a Virtual Room Space: Perspective and Vertical Movement. <i>International Journal of Human-Computer Interaction</i> , 2010 , 26, 661-674	3.6	5
118	A low cost wearable wireless sensing system for upper limb home rehabilitation 2010 ,		2
117	Analysis of Pole Configurations of Permanent-Magnet Spherical Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 ,	5.5	12
116	The development of a real-time wearable motion replication platform with spatial sensing and tactile feedback 2010 ,		3
115	A geometrical approach for online error compensation of industrial manipulators 2010 ,		22

114	Design and validation of a multi-finger sensing device based on Optical linear encoder 2010 ,		1
113	Integrating Route and Survey Learning in Complex Virtual Environments: Using a 3D Map. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2010 , 54, 2393-2397	0.4	
112	A high-dexterity low-degree-of-freedom hybrid manipulator structure for robotic lion dance. <i>Journal of Zhejiang University: Science A</i> , 2010 , 11, 240-249	2.1	
111	A low cost wearable optical-based goniometer for human joint monitoring. <i>Frontiers of Mechanical Engineering in China</i> , 2010 , 6, 13		10
110	A virtual reality system for arm and hand rehabilitation. <i>Frontiers of Mechanical Engineering in China</i> , 2010 , 6, 23		1
109	Personalized biomedical devices & systems for healthcare applications. <i>Frontiers of Mechanical Engineering in China</i> , 2010 , 6, 3		2
108	A generic approximation model for analyzing large nonlinear deflection of beam-based flexure joints. <i>Precision Engineering</i> , 2010 , 34, 607-618	2.9	33
107	Spatial learning in a virtual multilevel building: Evaluating three exocentric view aids. <i>International Journal of Human Computer Studies</i> , 2010 , 68, 746-759	4.6	5
106	A Method for Comparing Human Postures from Motion Capture Data. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010 , 441-448	0.6	1
105	Motion generation methodology of a permanent magnet spherical actuator 2009 ,		5
104	A body sensor network for tracking and monitoring of functional arm motion 2009 ,		3
103	Empirical formulation of torque output for spherical actuators with low-cost rotor poles 2009 ,		2
102	Kinematic design of a family of 6-DOF partially decoupled parallel manipulators. <i>Mechanism and Machine Theory</i> , 2009 , 44, 912-922	4	49
101	Robust control of XYZ flexure-based micromanipulator with large motion. <i>Frontiers of Mechanical Engineering in China</i> , 2009 , 4, 25-34		5
100	Synthesis and stiffness modeling of XYZ flexure parallel mechanisms with large-motion and decoupled kinematic structure. <i>Frontiers of Mechanical Engineering in China</i> , 2009 , 4, 160-172		1
99	Integrated design of legged mechatronic system. <i>Frontiers of Mechanical Engineering in China</i> , 2009 , 4, 264		0
98	Workspace analysis of fully restrained cable-driven manipulators. <i>Robotics and Autonomous Systems</i> , 2009 , 57, 901-912	3.5	75
97	Intuitive vibro-tactile feedback for human body movement guidance 2009 ,		8

96	A generic tension-closure analysis method for fully-constrained cable-driven parallel manipulators 2009 ,		12
95	A multi-degree-of-freedom orientation measurement methodology with laser detection 2009 ,		1
94	Electromechanical Modeling of a Permanent-Magnet Spherical Actuator Based on Magnetic-Dipole-Moment Principle. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1640-1648	8.9	31
93	Spatial Navigation in a Virtual Multilevel Building: The Role of Exocentric View in Acquiring Survey Knowledge. <i>Lecture Notes in Computer Science</i> , 2009 , 60-69	0.9	
92	2008 ,		5
91	Self-Calibration of a Biologically Inspired 7 DOF Cable-Driven Robotic Arm. <i>IEEE/ASME Transactions on Mechatronics</i> , 2008 , 13, 66-75	5.5	56
90	Design and Analysis of a Permanent Magnet Spherical Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2008 , 13, 239-248	5.5	92
89	A flexure-based electromagnetic linear actuator. <i>Nanotechnology</i> , 2008 , 19, 315501	3.4	35
88	A wearable, self-calibrating, wireless sensor network for body motion processing 2008 ,		3
87	Fiber-Optic Vibration Measurement for Low Refractive-Index Media Using Wavefront Splitting Interferometry. <i>International Journal of Optomechatronics</i> , 2008 , 2, 32-41	3.5	
86	Torque modeling of a permanent magnet spherical actuator based on magnetic dipole moment principle 2008 ,		2
85	On Algorithms for Planning S-Curve Motion Profiles. <i>International Journal of Advanced Robotic Systems</i> , 2008 , 5, 11	1.4	54
84	Design and Analysis of a Modular Hybrid Parallel-Serial Manipulator for Robotised Deburring Applications 2008 , 167-188		2
83	A novel 3-DOF sensing methodology for spherical actuator 2007 ,		1
82	Automated generation of the DH parameters for configuration design of modular manipulators. <i>Robotics and Computer-Integrated Manufacturing</i> , 2007 , 23, 553-562	9.2	33
81	Magnetic field modeling of a dual-magnet configuration. <i>Journal of Applied Physics</i> , 2007 , 102, 074924	2.5	14
80	Planning algorithms for s-curve trajectories 2007 ,		14
79	Motion Control of a Robotic Puppet through a Hybrid Motion Capture Device 2007 ,		6

78	Management of parallel-manipulator singularities using joint-coupling. <i>Advanced Robotics</i> , 2007 , 21, 583-600	8
77	Effects of constraint errors on parallel manipulators with decoupled motion. <i>Mechanism and Machine Theory</i> , 2006 , 41, 912-928	4 18
76	A Large-Displacement and Decoupled XYZ Flexure Parallel Mechanism for Micromanipulation 2006 ,	7
75	Equivolumetric partition of solid spheres with applications to orientation workspace analysis of robot manipulators 2006 , 22, 869-879	25
74	Kinematic design of a 6-DOF parallel manipulator with decoupled translation and rotation 2006 , 22, 545-551	44
73	Torque Modeling of Spherical Actuators with Double-layer Poles 2006 ,	9
72	A Flexure-Based Electromagnetic Linear Actuator for Nano-Positioning 2006 , 371-378	0
71	Design and nonlinear modeling of a large-displacement XYZ flexure parallel mechanism with decoupled kinematic structure. <i>Review of Scientific Instruments</i> , 2006 , 77, 115101	1.7 41
70	Numerical Orientation Workspace Analysis with Different Parameterization Methods 2006 ,	12
69	Analytical and experimental investigation on the magnetic field and torque of a permanent magnet spherical actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2006 , 11, 409-419	5.5 108
68	A Large-Displacement 3-DOF Flexure Parallel Mechanism with Decoupled Kinematics Structure 2006 ,	21
67	Nonlinear Modeling Method of a Large-Displacement and Decoupled XYZ Flexure Parallel Mechanism 2006 ,	1
66	Automatic Modeling for Modular Reconfigurable Robotic Systems: Theory and Practice 2006 ,	6
65	Force-closure workspace analysis of cable-driven parallel mechanisms. <i>Mechanism and Machine Theory</i> , 2006 , 41, 53-69	4 133
64	Task-oriented configuration design for reconfigurable parallel manipulator systems. <i>International Journal of Computer Integrated Manufacturing</i> , 2005 , 18, 615-634	4.3 29
63	Workspace generation and planning singularity-free path for parallel manipulators. <i>Mechanism and Machine Theory</i> , 2005 , 40, 776-805	4 86
62	Many strings attached: from conventional to robotic marionette manipulation. <i>IEEE Robotics and Automation Magazine</i> , 2005 , 12, 59-74	3.4 10
61	Stiffness modeling of flexure parallel mechanism. <i>Precision Engineering</i> , 2005 , 29, 467-478	2.9 131

60	Micro-motion selective-actuation X Y Z flexure parallel mechanism: design and modeling. <i>Journal of Micromechatronics</i> , 2005 , 3, 51-73		14
59	Design and analysis of a permanent magnet spherical actuator 2005 ,		1
58	Evaluation of resolution of flexure parallel mechanisms for ultraprecision manipulation. <i>Review of Scientific Instruments</i> , 2004 , 75, 3016-3024	1.7	15
57	Kinematic design of a six-DOF parallel-kinematics Machine with decoupled-motion architecture 2004 , 20, 876-884		53
56	Structure synthesis and singularity analysis of a parallel manipulator based on selective actuation 2004 ,		4
55	Instantaneous kinematics and singularity analysis of three-legged parallel manipulators. <i>Robotica</i> , 2004 , 22, 189-203	2.1	9
54	Marionette: From Traditional Manipulation to Robotic Manipulation 2004 , 119-133		6
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26	A novel kinematic calibration algorithm for reconfigurable robotic systems		5
25	Kinematics analysis of a 6-DOF selectively actuated parallel manipulator		1

24	Experimental Investigation on the Magnetic Field of a Permanent Magnet Spherical Actuator	2
23	Singularity-free path planning of parallel manipulators using clustering algorithm and line geometry	15
22	Interactive-motion control of modular reconfigurable manipulators	2
21	Task-based configuration design for 3-legged modular parallel robots using simplex methods	3
20	Dynamic analysis of a 3-DOF flexure parallel micromanipulator	4
19	Torque Modeling of a Spherical Actuator Based on Lorentz Force Law	3
18	Mechanical design & numerical electromagnetic analysis of a DC spherical actuator	2
17	Singularity analysis of three-legged parallel robots based on passive-joint velocities	1
16	Workspace analysis and singularity representation of three-legged parallel manipulators	3
15	Kinematics, workspace and static analyses of 2-DOF flexure parallel mechanism	5
14	Singularity management of 2DOF planar manipulator using coupled kinematics	2
13	Design expressive behaviors for robotic puppet	2
12	A geometrical method for the singularity analysis of 3-RRR planar parallel robots with different actuation schemes	15
11	Cartesian coordinate control for redundant modular robots	7
10	Closed-form inverse kinematics solver for reconfigurable robots	7
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7	Design and kinematic analysis of modular reconfigurable parallel robots	11

6	Determining task optimal modular robot assembly configurations	16
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4	A qualitative test for N-finger force-closure grasps on planar objects with applications to manipulation and finger gaits	18
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2	Simultaneous Localization and Capture with velocity information	1
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