

List of Publications by Citations

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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.

128 papers	551 citations	11 h-index	16 g-index
164 ext. papers	716 ext. citations	1.8 avg, IF	3.33 L-index

#	Paper	IF	Citations
128	Developmental Process of a Chopstick-Like Hybrid-Structure Two-Fingered Micromanipulator Hand for 3-D Manipulation of Microscopic Objects. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1121-1135	8.9	51
127	HUMAN-ROBOT COLLISION AVOIDANCE USING A MODIFIED SOCIAL FORCE MODEL WITH BODY POSE AND FACE ORIENTATION. <i>International Journal of Humanoid Robotics</i> , 2013 , 10, 1350008	1.2	30
126	Multifunctional Noncontact Micromanipulation Using Whirling Flow Generated by Vibrating a Single Piezo Actuator. <i>Small</i> , 2019 , 15, e1804421	11	18
125	Social navigation model based on human intention analysis using face orientation 2013 ,		15
124	Vision-Based Hierarchical Recognition for Dismantling Robot Applied to Interior Renewal of Buildings. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2011 , 26, 336-355	8.4	14
123	Development of a scale of perception to humanoid robots: PERNOD 2010 ,		13
122	Vision-based automated single-cell loading and supply system. <i>IEEE Transactions on Nanobioscience</i> , 2009 , 8, 332-40	3.4	12
121	Stair recognition with laser range scanning by limb mechanism robot ASTERISK 2009 ,		12
120	. <i>IEEE Industrial Electronics Magazine</i> , 2007 , 54, 1420-1429	6.2	12
119	On-line Evolutionary Head Pose Measurement by Feedforward Stereo Model Matching. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007 ,		12
118	Dextrous cell diagnosis using two-fingered microhand with micro force sensor. <i>Journal of Micro-Nano Mechatronics</i> , 2012 , 7, 13-20		11
117	Automated micromanipulation for a microhand with All-In-Focus imaging system 2011 ,		11
116	Impressions of Humanoids: The Development of a Measure for Evaluating a Humanoid. <i>International Journal of Social Robotics</i> , 2014 , 6, 33-44	4	10
115	Dynamic Rolling-Walk Motion by the Limb Mechanism Robot ASTERISK. <i>Advanced Robotics</i> , 2011 , 25, 75-91	1.7	10
114	On-line Optimization of Avoidance Ability for Redundant Manipulator 2006 ,		10
113	Brain Machine Interface System Automation Considering User Preferences and Error Perception Feedback. <i>IEEE Transactions on Automation Science and Engineering</i> , 2014 , 11, 1275-1281	4.9	9
112	Development of Integrated Visual Haptic Display Using Translucent Flexible Sheet. <i>Journal of Robotics and Mechatronics</i> , 2005 , 17, 302-309	0.7	9

111	Pose Estimation of Objects using Multiple ID Devices. <i>Journal of the Robotics Society of Japan</i> , 2005 , 23, 84-94	0.1	9
110	Real-time trajectory planning for mobile manipulator using model predictive control with constraints 2011 ,		8
109	Ladder Climbing Method for the Limb Mechanism Robot ASTERISK. <i>Advanced Robotics</i> , 2010 , 24, 1557-1576		8
108	Cell stiffness measurement using two-fingered microhand 2010 ,		8
107	Social interactive robot navigation based on human intention analysis from face orientation and human path prediction. <i>ROBOMECH Journal</i> , 2015 , 2,	2.1	7
106	Ladder climbing control for limb mechanism robot ASTERISK 2008 ,		7
105	Application of a 'limb mechanism' robot to rescue tasks. <i>Advanced Robotics</i> , 2002 , 16, 529-532	1.7	7
104	A New Close-Loop Control Method for an Inspection Robot Equipped with Electropermanent-Magnets. <i>Journal of Robotics and Mechatronics</i> , 2016 , 28, 185-193	0.7	7
103	A hybrid flying and walking robot for steel bridge inspection 2016 ,		7
102	Vortex-Driven Rotation for Three-Dimensional Imaging Under Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 688-691	2.6	6
101	Object search using object co-occurrence relations derived from web content mining. <i>Intelligent Service Robotics</i> , 2014 , 7, 1-13	2.6	6
100	Face relighting using discriminative 2D spherical spaces for face recognition. <i>Machine Vision and Applications</i> , 2014 , 25, 845-857	2.8	6
99	Component-based robot system design for grasping tasks. <i>Intelligent Service Robotics</i> , 2011 , 4, 91-98	2.6	6
98	Component-based robot software design for pick-and-place task described by SysML 2011 ,		6
97	NDT scan matching method for high resolution grid map 2009 ,		6
96	People tracking with body pose estimation for human path prediction 2012 ,		6
95	Miniaturized Vision System for Microfluidic Devices. <i>Advanced Robotics</i> , 2008 , 22, 1207-1222	1.7	6
94	The generation of environmental map based on a NDT grid mapping -Proposal of convergence calculation corresponding to high resolution grid- 2008 ,		6

93	High-Speed Manipulation of Microobjects Using an Automated Two-Fingered Microhand for 3D Microassembly. <i>Micromachines</i> , 2020 , 11,	3.3	5
92	Autonomous acquisition of generic handheld objects in unstructured environments via sequential back-tracking for object recognition 2014 ,		5
91	High-speed autofocusing of multisized microobjects 2012 ,		5
90	Real-time precise 3D measurement of micro transparent objects using All-In-Focus imaging system. <i>Journal of Micro-Nano Mechatronics</i> , 2012 , 7, 21-31		5
89	A new multi-scale micromanipulation system with dexterous motion 2009 ,		5
88	Development of Haptic Device Using Flexible Sheet. <i>Journal of Robotics and Mechatronics</i> , 2003 , 15, 121-127		5
87	Omni-Directional Gait of Multi-Legged Robot on Rough Terrain by Following the Virtual Plane. <i>Journal of Robotics and Mechatronics</i> , 2012 , 24, 71-85	0.7	5
86	Object Tracking in Cluttered Background Based on Optical Flow and Edges.. <i>Journal of the Robotics Society of Japan</i> , 1997 , 15, 103-108	0.1	5
85	BMI-based learning system for appliance control automation 2013 ,		4
84	Analysis of rotational flow generated by circular motion of an end effector for 3D micromanipulation. <i>ROBOMECH Journal</i> , 2017 , 4,	2.1	4
83	Development of the 3D measurement system in real-time for micro-manipulation 2017 ,		4
82	Interoperable RT component for object detection and 3D pose estimation for service robots 2009 ,		4
81	Dismantling interior facilities in buildings by human robot collaboration 2008 ,		4
80	Detection of screws on metal-ceiling structures for dismantling tasks in buildings 2008 ,		4
79	Adaptive Gait for Dynamic Rotational Walking Motion on Unknown Non-Planar Terrain by Limb Mechanism Robot ASTERISK. <i>Journal of Robotics and Mechatronics</i> , 2013 , 25, 172-182	0.7	4
78	New tripod walking method for legged inspection robot 2016 ,		3
77	Virtual impedance model for obstacle avoidance in a limb mechanism robot 2010 ,		3
76	High speed micromanipulation system with multi-scalability 2011 ,		3

75	Vision-based object search in unknown human environment using object Co-occurrence Graph 2011 , ,		3
74	2011 ,		3
73	Obstacle avoidance using virtual impedance wall for limb mechanism robot 2009 ,		3
72	Inspection Robot in Complicated 3D Environments 2015 ,		3
71	Adaptive Relocation of Environment-Attached Storage Devices for Knowledge-Sharing among Autonomous Robots. <i>Journal of the Robotics Society of Japan</i> , 2002 , 20, 631-639	0.1	3
70	Omni-directional Locomotion of Robots with Limb Mechanism. <i>Journal of the Robotics Society of Japan</i> , 2004 , 22, 329-335	0.1	3
69	Implementation of Cell Detection Mechanism on Microfluidic Chip. <i>Journal of the Robotics Society of Japan</i> , 2008 , 26, 462-467	0.1	3
68	Design and fabrication of micro/bio chip for in vitro fabrication of toroidal cellular aggregates 2014 , ,		2
67	Web-enhanced object category learning for domestic robots. <i>Intelligent Service Robotics</i> , 2013 , 6, 53-67	2.6	2
66	Hammering sound analysis for infrastructure inspection by leg robot 2015 ,		2
65	Object search framework based on gaze interaction 2015 ,		2
64	Keyframe Selection Framework Based on Visual and Excitement Features for Lifelog Image Sequences. <i>International Journal of Social Robotics</i> , 2015 , 7, 859-874	4	2
63	BMI-based framework for teaching and evaluating robot skills 2014 ,		2
62	Optimization of obstacle avoidance using reinforcement learning 2012 ,		2
61	Workspace optimization for multi-scale micromanipulation system 2010 ,		2
60	Multiple cell suction and supply system for automated cell manipulation on microfluidic channel 2011 ,		2
59	Visual and physical segmentation of novel objects 2011 ,		2
58	Software interface for controlling diverse robotic platforms using BMI 2012 ,		2

57	Internal force control for rolling operation of polygonal prism 2009 ,		2
56	Cell Analysis System Using Two-fingered Micro Hand -Fine adjustment mechanism for end-effector- 2008 ,		2
55	Evolutionary Recognition of Corridor and Turning using Adaptive Model with 3D Structure 2006 ,		2
54	Person Recognition by Stereo Model-based Matching 2006 ,		2
53	'Search balls': sensor units for searching inside rubble. <i>Advanced Robotics</i> , 2005 , 19, 861-878	1.7	2
52	High-Speed Focusing and Tracking of Multisized Microbiological Objects. <i>Journal of Robotics and Mechatronics</i> , 2013 , 25, 115-124	0.7	2
51	Automated Construction System for 3D Lattice Structure Based on Alginate Gel Fiber Containing Living Cells. <i>Journal of Robotics and Mechatronics</i> , 2013 , 25, 665-672	0.7	2
50	Parallel Mechanism with Adjustable Link Parameters. <i>Journal of the Robotics Society of Japan</i> , 2004 , 22, 140-147	0.1	2
49	Expansion of Movable Area of Multi Legged Robot by Rotational Gait. <i>Journal of the Robotics Society of Japan</i> , 2010 , 28, 231-240	0.1	2
48	Brain signal-based safety measure activation for robotic systems. <i>Advanced Robotics</i> , 2015 , 29, 1234-1242	2.7	1
47	Development of micro heater array system for cell manipulation 2017 ,		1
46	Development of multifunctional robot hand for visual inspection equipped with 3D force sensing 2015 ,		1
45	Lifelogging keyframe selection using image quality measurements and physiological excitement features 2013 ,		1
44	Microfluidic device for automated generation of toroidal-like spheroids 2013 ,		1
43	Rotation control of polygonal prism by multi-legged robot 2010 ,		1
42	Adaptive gait for dynamic rotational walking motion by ASTERISK 2011 ,		1
41	Design of a compact 3-DOF microhand system with large workspace 2011 ,		1
40	Micro valve system for individual cell transportation in microfluidic chip 2009 ,		1

39	Optimization of grid wall walking by genetic algorithm 2009 ,		1
38	2009 ,		1
37	Adding image information corresponding to the shape of the objects' surfaces on environmental maps 2011 ,		1
36	Generic object classifiers based on real image selection from the web 2011 ,		1
35	Cell hardness measurement by using two-fingered microhand with micro force sensor 2011 ,		1
34	Measurement of particle position in micro channel using two-layer POF array 2012 ,		1
33	Evolutionary Head Pose Measurement by Improved Stereo Model Matching 2006 ,		1
32	On-line Prediction of Escaping Fish from Catching Net by Neural Network and Circular Approximation 2006 ,		1
31	Position/force control of grinding robot by using real-time presumption of constrained condition 2007 ,		1
30	Real-time Obstacle Avoidance with Collision Jacobian for Robot Arm.. <i>Journal of the Robotics Society of Japan</i> , 2000 , 18, 555-560	0.1	1
29	Distributed Control of Hyper-redundant Manipulator with Expansion and Contraction Motion(Position Control and Application to Planar Manipulator.). <i>Journal of the Robotics Society of Japan</i> , 2001 , 19, 197-206	0.1	1
28	Mobile Manipulation of Humanoid Robots. Analysis of the Required Function of Legs in Mobile Manipulation.. <i>Journal of the Robotics Society of Japan</i> , 2001 , 19, 660-666	0.1	1
27	Tension Control and Force Estimation of Hybrid Drive Parallel Arm. <i>Journal of the Robotics Society of Japan</i> , 2003 , 21, 436-443	0.1	1
26	DESIGN OF MULTI SENSOR UNITS FOR SEARCHING INSIDE OF RUBBLE 2007 , 415-420		1
25	Extraction and Tracking of Moving Objects in 3-D Space by Multiple Plane Approximation Based on Optical Flow and Edges.. <i>Journal of the Robotics Society of Japan</i> , 1999 , 17, 959-965	0.1	1
24	Collision Avoidance Using Contact Information with Multiple Objects by Multi-Leg Robot. <i>Journal of Robotics and Mechatronics</i> , 2016 , 28, 17-30	0.7	1
23	Simulation of bipedal walking based on CPG for Clogs-type Sole Shape. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , 2010 , 2010.5, 681-686		1
22	2A1-E09 Wearable Mobile Base Walking Assist System Based on Human Intention(Wearable Robotics). <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2011 , 2011, _2A1-E09_1-_2A1-E09_4	0	1

21	Detection for Particles Moving in Micro Channel with Multifiber Array Sensor. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2012 , 132, 203-211	0.2	1
20	Image Information Added Map Making Interface for Compensating Image Resolution. <i>Journal of Robotics and Mechatronics</i> , 2012 , 24, 507-516	0.7	1
19	Cell Stiffness Measurement by Two-fingered Micro-hand System with Plate Shaped End Effector 2018 ,		1
18	Automated Microhand System for Measuring Cell Stiffness By Using Two Plate End-Effectors. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 2385-2390	4.2	0
17	Generating Whole Body Motion of Humanoid Robots for Manipulation Tasks. <i>Journal of the Robotics Society of Japan</i> , 2005 , 23, 967-976	0.1	0
16	Cell Manipulation and Cellular Parts Assembly for Constructing 3D Cellular Systems 2015 , 93-128		
15	Effect of Chaos-Driving Motion of Patient Robot in Nursing Practice(Mechanical Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2010 , 76, 2628-2637		
14	Leg-Wheel Hybrid Locomotion for Multi-Legged Robot(Mechanical Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2009 , 75, 2996-3004		
13	2A1-K01 Automated Cell Supply Module Cell Detection and Control in a Micro-chip. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2009 , 2009, _2A1-K01_1-_2A1-K01_3		3
12	206 Configuration Control of Redundant Manipulators Using AMSIP. <i>The Proceedings of Conference of Tokai Branch</i> , 2006 , 2006.55, 65-66	0	
11	124 Learning of Fish Movement Pattern. <i>The Proceedings of Conference of Tokai Branch</i> , 2006 , 2006.55, 47-48	0	
10	2P1-B13 Detection of Screws on Metal Ceiling Structures for Dismantling Interior of Building. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2008 , 2008, _2P1-B13_1-_2P1-B13_4		4
9	Evaluation of a mechanical stimulus to cellular nucleus by the microfluidic device. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2018 , 2018, 1A1-M16	0	
8	S1510104 Infrastructure Inspection by Multi-legged Robot equipped with Electromagnet. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2015 , 2015, _S1510104-_S1510104-	0	
7	Extraction of Grasping Region of Object for Automatic Modeling by Observing Human-object Interaction. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , 2015 , 2015.6, 131-132		
6	Microfluidic device to apply a mechanical stimulus and enable response evaluation onto cellular nucleus. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2017 , 2017, 2A1-F03	0	
5	Automated Three-Dimensional Pose Estimation of Objects using Multiple ID Devices by Autonomous Robot. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , 2010 , 2010.5, 534-539		
4	Recognition and Removal of Interior Facilities by Vision-Based Robot System. <i>Journal of Robotics and Mechatronics</i> , 2010 , 22, 50-64	0.7	

- 3 Feasibility Check of an Assist System Through the Simulation of Bipedal Walking Using a CPG. *Journal of Robotics and Mechatronics*, **2012**, 24, 657-665 0.7
- 2 Measuring Particle Positions in Micro Channel with Multifiber Array. *Journal of Robotics and Mechatronics*, **2013**, 25, 1105-1113 0.7
- 1 Multi-Lighting for Unknown Objects Segmentation in Cluttered Environment. *SICE Journal of Control Measurement and System Integration*, **2014**, 7, 90-95 0.3