

# Tomohito Takubo

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

846  
citations

686830

13  
h-index

676716

22  
g-index

120  
all docs

120  
docs citations

120  
times ranked

599  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human-Robot Cooperative Manipulation Using a Virtual Nonholonomic Constraint. International Journal of Robotics Research, 2002, 21, 541-553.	5.8	70
2	Developmental Process of a Chopstick-Like Hybrid-Structure Two-Fingered Micromanipulator Hand for 3-D Manipulation of Microscopic Objects. IEEE Transactions on Industrial Electronics, 2009, 56, 1121-1135.	5.2	69
3	Integrated Limb Mechanism Robot ASTERISK. Journal of Robotics and Mechatronics, 2006, 18, 203-214.	0.5	52
4	HUMAN-ROBOT COLLISION AVOIDANCE USING A MODIFIED SOCIAL FORCE MODEL WITH BODY POSE AND FACE ORIENTATION. International Journal of Humanoid Robotics, 2013, 10, 1350008.	0.6	40
5	Hybrid Locomotion of Leg-Wheel ASTERISK H. Journal of Robotics and Mechatronics, 2008, 20, 403-412.	0.5	32
6	Omni-directional Gait of Limb Mechanism Robot Hanging from Grid-like Structure. , 2006, , .		31
7	New Architecture of a Hybrid Two-Fingered Micro-Nano Manipulator Hand: Optimization and Design. Advanced Robotics, 2008, 22, 235-260.	1.1	30
8	Ladder climbing control for limb mechanism robot &#x201C;ASTERISK&#x201D;. , 2008, , .		24
9	Control of mobile manipulators for power assist systems. Journal of Field Robotics, 2000, 17, 469-477.	0.7	23
10	Rough terrain walking for bipedal robot by using ZMP criteria map. , 2009, , .		21
11	Human-Robot Cooperative Handling Using Variable Virtual Nonholonomic Constraint. International Journal of Automation Technology, 2009, 3, 653-662.	0.5	20
12	Vision-Based Hierarchical Recognition for Dismantling Robot Applied to Interior Renewal of Buildings. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 336-355.	6.3	19
13	Stair recognition with laser range scanning by limb mechanism robot &#x201C;ASTERISK&#x201D;. , 2009, , .		17
14	Development of a scale of perception to humanoid robots: PERNOD. , 2010, , .		17
15	Automated micromanipulation for a microhand with All-In-Focus imaging system. , 2011, , .		17
16	Psychological assessment of humanoid robot appearance and performance using virtual reality. , 2008, , .		15
17	Vision-Based Automated Single-Cell Loading and Supply System. IEEE Transactions on Nanobioscience, 2009, 8, 332-340.	2.2	15
18	Cell stiffness measurement using two-fingered microhand. , 2010, , .		15

#	ARTICLE	IF	CITATIONS
19	Impressions of Humanoids: The Development of a Measure for Evaluating a Humanoid. International Journal of Social Robotics, 2014, 6, 33-44.	3.1	14
20	Emergent walking stop using 3-D ZMP modification criteria map for humanoid robot. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	13
21	Dextrous cell diagnosis using two-fingered microhand with micro force sensor. Journal of Micro-Nano Mechatronics, 2012, 7, 13-20.	1.0	13
22	Real-time trajectory planning for mobile manipulator using model predictive control with constraints. , 2011, , .		12
23	Dynamic Rolling-Walk Motion by the Limb Mechanism Robot ASTERISK. Advanced Robotics, 2011, 25, 75-91.	1.1	12
24	Object search using object co-occurrence relations derived from web content mining. Intelligent Service Robotics, 2014, 7, 1-13.	1.6	12
25	Wholebody Teleoperation for Humanoid Robot by Marionette System. , 2006, , .		11
26	The generation of environmental map based on a NDT grid mapping -Proposal of convergence calculation corresponding to high resolution grid-. , 2008, , .		11
27	Design Optimization of a Compact 3-DOF Parallel Micro/Nano Finger Manipulator. , 2006, , .		10
28	NDT scan matching method for high resolution grid map. , 2009, , .		9
29	Ladder Climbing Method for the Limb Mechanism Robot ASTERISK. Advanced Robotics, 2010, 24, 1557-1576.	1.1	9
30	Miniaturized Vision System for Microfluidic Devices. Advanced Robotics, 2008, 22, 1207-1222.	1.1	8
31	Detection of screws on metal-ceiling structures for dismantling tasks in buildings. , 2008, , .		8
32	Omni-Directional Gait of Multi-Legged Robot on Rough Terrain by Following the Virtual Plane. Journal of Robotics and Mechatronics, 2012, 24, 71-85.	0.5	8
33	Dismantling interior facilities in buildings by human robot collaboration. , 2008, , .		7
34	Component-based robot software design for pick-and-place task described by SysML. , 2011, , .		7
35	Component-based robot system design for grasping tasks. Intelligent Service Robotics, 2011, 4, 91-98.	1.6	7
36	People tracking with body pose estimation for human path prediction. , 2012, , .		7

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37	High-speed autofocusing of multisized microobjects. , 2012, , .		7
38	Real-time precise 3D measurement of micro transparent objects using All-In-Focus imaging system. Journal of Micro-Nano Mechatronics, 2012, 7, 21-31.	1.0	7
39	Performance Evaluation of Teleoperation for Manipulating Micro Objects Using Two-Fingered Micro Hand. Journal of Robotics and Mechatronics, 2007, 19, 577-584.	0.5	7
40	Interoperable RT component for object detection and 3D pose estimation for service robots. , 2009, , .		6
41	'Search balls': sensor units for searching inside rubble. Advanced Robotics, 2005, 19, 861-878.	1.1	5
42	Dynamic rolling-walk motion by limb mechanism robot ASTERISK. , 2009, , .		5
43	A new multi-scale micromanipulation system with dexterous motion. , 2009, , .		5
44	Virtual impedance model for obstacle avoidance in a limb mechanism robot. , 2010, , .		5
45	Mobile Manipulation Control for Humanoid Robots-Control of Center of Mass Position Considering the Hand Reflect Forces-. Journal of the Robotics Society of Japan, 2006, 24, 614-622.	0.0	5
46	Collaborative Monitoring Using UFAM and Mobile Robot. , 2007, , .		4
47	Internal force control for rolling operation of polygonal prism. , 2009, , .		4
48	Visual and physical segmentation of novel objects. , 2011, , .		4
49	Adaptive Gait for Dynamic Rotational Walking Motion on Unknown Non-Planar Terrain by Limb Mechanism Robot ASTERISK. Journal of Robotics and Mechatronics, 2013, 25, 172-182.	0.5	4
50	Cell Analysis System Using Two-fingered Micro Hand -Fine adjustment mechanism for end-effector-. , 2008, , .		3
51	Rotational operation of polygonal prism by multi-legged robot. , 2009, , .		3
52	Obstacle avoidance using virtual impedance wall for limb mechanism robot. , 2009, , .		3
53	High speed micromanipulation system with multi-scalability. , 2011, , .		3
54	Vision-based object search in unknown human environment using object Co-occurrence Graph. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
55	Dynamic rotational walking motion on inclined-plane with posture optimization by genetic algorithms. , 2011, , .		3
56	Cell hardness measurement by using two-fingered microhand with micro force sensor. , 2011, , .		3
57	Web-enhanced object category learning for domestic robots. Intelligent Service Robotics, 2013, 6, 53-67.	1.6	3
58	Model-Based Footstep Planning Method for Biped Walking on 3D Field. Journal of Robotics and Mechatronics, 2015, 27, 156-166.	0.5	3
59	Wholebody Tele-operation for Humanoid Robot by Marionette System. Journal of the Robotics Society of Japan, 2007, 25, 457-465.	0.0	3
60	Implementation of Cell Detection Mechanism on Microfluidic Chip. Journal of the Robotics Society of Japan, 2008, 26, 462-467.	0.0	3
61	Expansion of Movable Area of Multi Legged Robot by Rotational Gait. Journal of the Robotics Society of Japan, 2010, 28, 231-240.	0.0	3
62	Image Information Added Map Making Interface for Compensating Image Resolution. Journal of Robotics and Mechatronics, 2012, 24, 507-516.	0.5	3
63	Measurement of Mechanical Properties of Living Cells Using Micro Fingers and AFM Cantilevers. , 2006, , .		2
64	Micro-Nano Two-Fingered Hybrid Manipulator Hand. , 2007, , .		2
65	Optimization of a Hybrid Two-Fingered Micro Hand Using Genetic Algorithms. , 2008, , .		2
66	Optimization of grid wall walking by genetic algorithm. , 2009, , .		2
67	Gait planning for a biped robot by a nonholonomic system with difference equation constraints. , 2010, , .		2
68	Rotation control of polygonal prism by multi-legged robot. , 2010, , .		2
69	Workspace optimization for multi-scale micromanipulation system. , 2010, , .		2
70	Multiple cell suction and supply system for automated cell manipulation on microfluidic channel. , 2011, , .		2
71	Optimization of obstacle avoidance using reinforcement learning. , 2012, , .		2
72	Collision Avoidance Using Contact Information with Multiple Objects by Multi-Leg Robot. Journal of Robotics and Mechatronics, 2016, 28, 17-30.	0.5	2

#	ARTICLE	IF	CITATIONS
73	Micro valve system for individual cell transportation in microfluidic chip. , 2009, , .		1
74	Automated initial setup method for two-fingered micro hand system. , 2009, , .		1
75	Adaptive gait for dynamic rotational walking motion by ASTERISK. , 2011, , .		1
76	Design of a compact 3-DOF microhand system with large workspace. , 2011, , .		1
77	Adding image information corresponding to the shape of the objects' surfaces on environmental maps. , 2011, , .		1
78	Generic object classifiers based on real image selection from the web. , 2011, , .		1
79	Measurement of particle position in micro channel using two-layer POF array. , 2012, , .		1
80	Footstep planning for tripod gait in obstacle environment. , 2015, , .		1
81	Model-based footstep planning for tripod gait on 3D field. , 2016, , .		1
82	Development of Multi-Scalable Microhand System with Precise Motion Ability. Journal of Robotics and Mechatronics, 2013, 25, 183-191.	0.5	1
83	DESIGN OF MULTI SENSOR UNITS FOR SEARCHING INSIDE OF RUBBLE. , 2007, , 415-420.		1
84	Simulation of bipedal walking based on CPG for Clogs-type Sole Shape. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 681-686.	0.0	1
85	2A1-E09 Wearable Mobile Base Walking Assist System Based on Human Intention(Wearable Robotics). The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2011, 2011, _2A1-E09_1-_2A1-E09_4.	0.0	1
86	Detection for Particles Moving in Micro Channel with Multifiber Array Sensor. IEEJ Transactions on Sensors and Micromachines, 2012, 132, 203-211.	0.0	1
87	Compact Vision System on a Chip Application. , 2006, , .		0
88	A Control Method of Mobile Manipulator Using Virtual Impedance Wall for Human/Robot Collaboration Object Transfer Task. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2007, 73, 2115-2122.	0.2	0
89	Compact Vision System Design and Application on a PDMS Chip. , 2007, , .		0
90	Development of a compact vision system for automated nuclear transplantation project; , 2008, , .		0

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91	2A1-K01 Automated Cell Supply Module Cell Detection and Control in a Micro-chip. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2009, 2009, _2A1-K01_1-_2A1-K01_3.	0.0	0
92	Simple method for generating dynamic object map. , 2009, , .		0
93	Self-Controlled Cell Selection and Loading System for microfluidic systems. , 2009, , .		0
94	Dynamic rolling-walking motion with Sensory Compensation. , 2009, , .		0
95	Automatic single cell transfer module. , 2009, , .		0
96	User friendly two-fingered cell manipulation system. , 2009, , .		0
97	On-chip disposable: Compact vision system. , 2009, , .		0
98	Emergent Stop by Using Preview ZMP Criteria Map for Humanoid Robot(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2009, 75, 2986-2995.	0.2	0
99	Leg-Wheel Hybrid Locomotion for Multi-Legged Robot(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2009, 75, 2996-3004.	0.2	0
100	Unknown objects segmentation and material classification for separation. , 2010, , .		0
101	Calibration Method for Parallel Mechanism using Micro Grid Pattern. Journal of Environment and Engineering, 2011, 6, 739-752.	0.2	0
102	Human's operation modeling based on Hidden Markov Model with consideration for the operation change and timing. , 2013, , .		0
103	3D gait planning based on discrete-time kinematic model of biped walking. , 2014, , .		0
104	Vision-Based Path Learning for Home Robots. , 2014, , .		0
105	Camera view centered mobile robot control interface. , 2014, , .		0
106	Automatic generation for Image Information Added Map considering the surface shape. , 2015, , .		0
107	Cooperative monitoring multiple humans using UAVs and fixed camera. , 2017, , .		0
108	Tripod gait using buffer area around leg workspace for flexible direction change. , 2020, , .		0

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109	Object pose rotation by pulling up the edge of object under a constraint of ground contact. , 2020, , .		0
110	1A1-C35 Design of a Compact 3-DOF Parallel Micro Finger Manipulator. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2006, 2006, _1A1-C35_1-_1A1-C35_4.	0.0	0
111	2P1-B13 Detection of Screws on Metal Ceiling Structures for Dismantling Interior of Building. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2008, 2008, _2P1-B13_1-_2P1-B13_4.	0.0	0
112	Recognition and Removal of Interior Facilities by Vision-Based Robot System. Journal of Robotics and Mechatronics, 2010, 22, 50-64.	0.5	0
113	Feasibility Check of an Assist System Through the Simulation of Bipedal Walking Using a CPG. Journal of Robotics and Mechatronics, 2012, 24, 657-665.	0.5	0
114	Measuring Particle Positions in Micro Channel with Multifiber Array. Journal of Robotics and Mechatronics, 2013, 25, 1105-1113.	0.5	0
115	A Temporal-Difference Learning Method Using Gaussian State Representation for Continuous State Space Problems. Transactions of the Japanese Society for Artificial Intelligence, 2014, 29, 157-167.	0.1	0
116	Automating the Appending of Image Information to Grid Map Corresponding to Object Shape. Journal of Robotics and Mechatronics, 2017, 29, 713-719.	0.5	0
117	Testing Environment for Developing a Wireless Networking System based on Image-assisted Routing for Sports Applications. , 2021, , .		0
118	Visual and physical segmentation of novel objects. , 2011, , .		0
119	Cell hardness measurement by using two-fingered microhand with micro force sensor. , 2011, , .		0
120	Automated micromanipulation for a microhand with All-In-Focus imaging system. , 2011, , .		0