

# 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  | Testing Environment for Developing a Wireless Networking System based on Image-assisted Routing for Sports Applications. , 2021, , .  |     | 0         |
| 2  | Tripod gait using buffer area around leg workspace for flexible direction change. , 2020, , .   |     | 0         |
| 3  | Object pose rotation by pulling up the edge of object under a constraint of ground contact. , 2020, , .   |     | 0         |
| 4  | Cooperative monitoring multiple humans using UAVs and fixed camera. , 2017, , .   |     | 0         |
| 5  | 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         |
| 6  | Model-based footstep planning for tripod gait on 3D field. , 2016, , .  |     | 1         |
| 7  | Collision Avoidance Using Contact Information with Multiple Objects by Multi-Leg Robot. Journal of Robotics and Mechatronics, 2016, 28, 17-30.  | 0.5 | 2         |
| 8  | Automatic generation for Image Information Added Map considering the surface shape. , 2015, , .   |     | 0         |
| 9  | Footstep planning for tripod gait in obstacle environment. , 2015, , .  |     | 1         |
| 10 | Model-Based Footstep Planning Method for Biped Walking on 3D Field. Journal of Robotics and Mechatronics, 2015, 27, 156-166.  | 0.5 | 3         |
| 11 | 3D gait planning based on discrete-time kinematic model of biped walking. , 2014, , .   |     | 0         |
| 12 | Vision-Based Path Learning for Home Robots. , 2014, , .   |     | 0         |
| 13 | Camera view centered mobile robot control interface. , 2014, , .  |     | 0         |
| 14 | Impressions of Humanoids: The Development of a Measure for Evaluating a Humanoid. International Journal of Social Robotics, 2014, 6, 33-44.   | 3.1 | 14        |
| 15 | Object search using object co-occurrence relations derived from web content mining. Intelligent Service Robotics, 2014, 7, 1-13.  | 1.6 | 12        |
| 16 | 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         |
| 17 | Web-enhanced object category learning for domestic robots. Intelligent Service Robotics, 2013, 6, 53-67.  | 1.6 | 3         |
| 18 | Human's operation modeling based on Hidden Markov Model with consideration for the operation change and timing. , 2013, , .   |     | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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         |
| 21 | Development of Multi-Scalable Microhand System with Precise Motion Ability. Journal of Robotics and Mechatronics, 2013, 25, 183-191.   | 0.5 | 1         |
| 22 | Measuring Particle Positions in Micro Channel with Multifiber Array. Journal of Robotics and Mechatronics, 2013, 25, 1105-1113.  | 0.5 | 0         |
| 23 | People tracking with body pose estimation for human path prediction. , 2012, , .   |     | 7         |
| 24 | Measurement of particle position in micro channel using two-layer POF array. , 2012, , .   |     | 1         |
| 25 | High-speed autofocusing of multisized microobjects. , 2012, , .  |     | 7         |
| 26 | Optimization of obstacle avoidance using reinforcement learning. , 2012, , .   |     | 2         |
| 27 | Dextrous cell diagnosis using two-fingered microhand with micro force sensor. Journal of Micro-Nano Mechatronics, 2012, 7, 13-20.  | 1.0 | 13        |
| 28 | 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         |
| 29 | 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         |
| 30 | Detection for Particles Moving in Micro Channel with Multifiber Array Sensor. IEJ Transactions on Sensors and Micromachines, 2012, 132, 203-211.                             | 0.0 | 1         |
| 31 | Image Information Added Map Making Interface for Compensating Image Resolution. Journal of Robotics and Mechatronics, 2012, 24, 507-516.                                     | 0.5 | 3         |
| 32 | 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         |
| 33 | Adaptive gait for dynamic rotational walking motion by ASTERISK. , 2011, , .   |     | 1         |
| 34 | Component-based robot software design for pick-and-place task described by SysML. , 2011, , .  |     | 7         |
| 35 | Design of a compact 3-DOF microhand system with large workspace. , 2011, , .   |     | 1         |
| 36 | Multiple cell suction and supply system for automated cell manipulation on microfluidic channel. , 2011, , .   |     | 2         |

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|----|--|-----|-----------|
| 37 | High speed micromanipulation system with multi-scalability. , 2011, , .  |     | 3         |
| 38 | Vision-based object search in unknown human environment using object Co-occurrence Graph. , 2011, , .  |     | 3         |
| 39 | Dynamic rotational walking motion on inclined-plane with posture optimization by genetic algorithms. , 2011, , .   |     | 3         |
| 40 | Real-time trajectory planning for mobile manipulator using model predictive control with constraints. , 2011, , .  |     | 12        |
| 41 | Calibration Method for Parallel Mechanism using Micro Grid Pattern. Journal of Environment and Engineering, 2011, 6, 739-752.  | 0.2 | 0         |
| 42 | 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        |
| 43 | Component-based robot system design for grasping tasks. Intelligent Service Robotics, 2011, 4, 91-98.  | 1.6 | 7         |
| 44 | Automated micromanipulation for a microhand with All-In-Focus imaging system. , 2011, , .  |     | 17        |
| 45 | Adding image information corresponding to the shape of the objects' surfaces on environmental maps. , 2011, , .  |     | 1         |
| 46 | Dynamic Rolling-Walk Motion by the Limb Mechanism Robot ASTERISK. Advanced Robotics, 2011, 25, 75-91.  | 1.1 | 12        |
| 47 | Generic object classifiers based on real image selection from the web. , 2011, , .   |     | 1         |
| 48 | Cell hardness measurement by using two-fingered microhand with micro force sensor. , 2011, , .   |     | 3         |
| 49 | Visual and physical segmentation of novel objects. , 2011, , .   |     | 4         |
| 50 | 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         |
| 51 | Visual and physical segmentation of novel objects. , 2011, , .   |     | 0         |
| 52 | Cell hardness measurement by using two-fingered microhand with micro force sensor. , 2011, , .   |     | 0         |
| 53 | Automated micromanipulation for a microhand with All-In-Focus imaging system. , 2011, , .  |     | 0         |
| 54 | Gait planning for a biped robot by a nonholonomic system with difference equation constraints. , 2010, , .   |     | 2         |

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|----|---|-----|-----------|
| 55 | Virtual impedance model for obstacle avoidance in a limb mechanism robot. , 2010, , .   |     | 5         |
| 56 | Development of a scale of perception to humanoid robots: PERNOD. , 2010, , .  |     | 17        |
| 57 | Rotation control of polygonal prism by multi-legged robot. , 2010, , .  |     | 2         |
| 58 | Unknown objects segmentation and material classification for separation. , 2010, , .  |     | 0         |
| 59 | Ladder Climbing Method for the Limb Mechanism Robot ASTERISK. Advanced Robotics, 2010, 24, 1557-1576.   | 1.1 | 9         |
| 60 | Cell stiffness measurement using two-fingered microhand. , 2010, , .  |     | 15        |
| 61 | Workspace optimization for multi-scale micromanipulation system. , 2010, , .  |     | 2         |
| 62 | 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         |
| 63 | 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         |
| 64 | Recognition and Removal of Interior Facilities by Vision-Based Robot System. Journal of Robotics and Mechatronics, 2010, 22, 50-64.   | 0.5 | 0         |
| 65 | 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         |
| 66 | Micro valve system for individual cell transportation in microfluidic chip. , 2009, , .   |     | 1         |
| 67 | Simple method for generating dynamic object map. , 2009, , .  |     | 0         |
| 68 | Rotational operation of polygonal prism by multi-legged robot. , 2009, , .  |     | 3         |
| 69 | Optimization of grid wall walking by genetic algorithm. , 2009, , .   |     | 2         |
| 70 | Dynamic rolling-walk motion by limb mechanism robot ASTERISK. , 2009, , .   |     | 5         |
| 71 | Automated initial setup method for two-fingered micro hand system. , 2009, , .  |     | 1         |
| 72 | Self-Controlled Cell Selection and Loading System for &#x00026; microfluidic systems. , 2009, , .   |     | 0         |

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|----|--|-----|-----------|
| 73 | Dynamic rolling-walking motion with Sensory Compensation. , 2009, , .  |     | 0         |
| 74 | Interoperable RT component for object detection and 3D pose estimation for service robots. , 2009, , .   |     | 6         |
| 75 | NDT scan matching method for high resolution grid map. , 2009, , .   |     | 9         |
| 76 | Rough terrain walking for bipedal robot by using ZMP criteria map. , 2009, , .   |     | 21        |
| 77 | A new multi-scale micromanipulation system with dexterous motion. , 2009, , .  |     | 5         |
| 78 | Vision-Based Automated Single-Cell Loading and Supply System. IEEE Transactions on Nanobioscience, 2009, 8, 332-340.   | 2.2 | 15        |
| 79 | Internal force control for rolling operation of polygonal prism. , 2009, , .   |     | 4         |
| 80 | Automatic single cell transfer module. , 2009, , .   |     | 0         |
| 81 | User friendly two-fingered cell manipulation system. , 2009, , .   |     | 0         |
| 82 | Obstacle avoidance using virtual impedance wall for limb mechanism robot. , 2009, , .  |     | 3         |
| 83 | On-chip disposable: Compact vision system. , 2009, , .   |     | 0         |
| 84 | Stair recognition with laser range scanning by limb mechanism robot<br>&#x201C;ASTERISK&#x201C;. , 2009, , .   |     | 17        |
| 85 | 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        |
| 86 | 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         |
| 87 | 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         |
| 88 | Human-Robot Cooperative Handling Using Variable Virtual Nonholonomic Constraint. International Journal of Automation Technology, 2009, 3, 653-662.   | 0.5 | 20        |
| 89 | Miniaturized Vision System for Microfluidic Devices. Advanced Robotics, 2008, 22, 1207-1222.   | 1.1 | 8         |
| 90 | Psychological assessment of humanoid robot appearance and performance using virtual reality. , 2008, , .   |     | 15        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 91  | The generation of environmental map based on a NDT grid mapping -Proposal of convergence calculation corresponding to high resolution grid-. , 2008, , .   |     | 11        |
| 92  | New Architecture of a Hybrid Two-Fingered Microâ€“Nano Manipulator Hand: Optimization and Design. Advanced Robotics, 2008, 22, 235-260.  | 1.1 | 30        |
| 93  | Development of a compact vision system for &#x201C;automated nuclear transplantation project&#x201D;. , 2008, , .  |     | 0         |
| 94  | Dismantling interior facilities in buildings by human robot collaboration. , 2008, , .   |     | 7         |
| 95  | Detection of screws on metal-ceiling structures for dismantling tasks in buildings. , 2008, , .  |     | 8         |
| 96  | Ladder climbing control for limb mechanism robot &#x201C;ASTERISK&#x201D;. , 2008, , .   |     | 24        |
| 97  | Optimization of a Hybrid Two-Fingered Micro Hand Using Genetic Algorithms. , 2008, , .   |     | 2         |
| 98  | Cell Analysis System Using Two-fingered Micro Hand -Fine adjustment mechanism for end-effector-. , 2008, , .   |     | 3         |
| 99  | Hybrid Locomotion of Leg-Wheel ASTERISK H. Journal of Robotics and Mechatronics, 2008, 20, 403-412.  | 0.5 | 32        |
| 100 | Implementation of Cell Detection Mechanism on Microfluidic Chip. Journal of the Robotics Society of Japan, 2008, 26, 462-467.  | 0.0 | 3         |
| 101 | 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         |
| 102 | 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        |
| 103 | Collaborative Monitoring Using UFAM and Mobile Robot. , 2007, , .  |     | 4         |
| 104 | Micro-Nano Two-Fingered Hybrid Manipulator Hand. , 2007, , .   |     | 2         |
| 105 | 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         |
| 106 | Compact Vision System Design and Application on a PDMS Chip. , 2007, , .   |     | 0         |
| 107 | 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         |
| 108 | DESIGN OF MULTI SENSOR UNITS FOR SEARCHING INSIDE OF RUBBLE. , 2007, , 415-420.  |     | 1         |

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|-----|---|-----|-----------|
| 109 | Wholebody Tele-operation for Humanoid Robot by Marionette System. Journal of the Robotics Society of Japan, 2007, 25, 457-465.  | 0.0 | 3         |
| 110 | Design Optimization of a Compact 3-DOF Parallel Micro/Nano Finger Manipulator. , 2006, , .  |     | 10        |
| 111 | Compact Vision System on a Chip Application. , 2006, , .  |     | 0         |
| 112 | Measurement of Mechanical Properties of Living Cells Using Micro Fingers and AFM Cantilevers. , 2006, , .   |     | 2         |
| 113 | Wholebody Teleoperation for Humanoid Robot by Marionette System. , 2006, , .  |     | 11        |
| 114 | Omni-directional Gait of Limb Mechanism Robot Hanging from Grid-like Structure. , 2006, , .   |     | 31        |
| 115 | Integrated Limb Mechanism Robot ASTERISK. Journal of Robotics and Mechatronics, 2006, 18, 203-214.  | 0.5 | 52        |
| 116 | 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         |
| 117 | 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         |
| 118 | 'Search balls': sensor units for searching inside rubble. Advanced Robotics, 2005, 19, 861-878.   | 1.1 | 5         |
| 119 | Human-Robot Cooperative Manipulation Using a Virtual Nonholonomic Constraint. International Journal of Robotics Research, 2002, 21, 541-553.  | 5.8 | 70        |
| 120 | Control of mobile manipulators for power assist systems. Journal of Field Robotics, 2000, 17, 469-477.  | 0.7 | 23        |