# Yasushi Mae

## List of Publications by Citations

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|---|---|---|---|
| 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. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 1121-1135 | 8.9 | 51 |
| 127 | HUMAN–ROBOT COLLISION AVOIDANCE USING A MODIFIED SOCIAL FORCE MODEL WITH BODY POSE AND FACE ORIENTATION. *International Journal of Humanoid Robotics*, **2013**, 10, 1350008 | 1.2 | 30 |
| 126 | Multifunctional Noncontact Micromanipulation Using Whirling Flow Generated by Vibrating a Single Piezo Actuator. *Small*, **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. *Computer-Aided Civil and Infrastructure Engineering*, **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. *IEEE Transactions on Nanobioscience*, **2009**, 8, 332-40 | 3.4 | 12 |
| 121 | Stair recognition with laser range scanning by limb mechanism robot ASTERISK **2009**, | | 12 |
| 120 | . *IEEE Industrial Electronics Magazine*, **2007**, 54, 1420-1429 | 6.2 | 12 |
| 119 | On-line Evolutionary Head Pose Measurement by Feedforward Stereo Model Matching. *Proceedings - IEEE International Conference on Robotics and Automation*, **2007**, | | 12 |
| 118 | Dextrous cell diagnosis using two-fingered microhand with micro force sensor. *Journal of Micro-Nano Mechatronics*, **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. *International Journal of Social Robotics*, **2014**, 6, 33-44 | 4 | 10 |
| 115 | Dynamic Rolling-Walk Motion by the Limb Mechanism Robot ASTERISK. *Advanced Robotics*, **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. *IEEE Transactions on Automation Science and Engineering*, **2014**, 11, 1275-1281 | 4.9 | 9 |
| 112 | Development of Integrated Visual Haptic Display Using Translucent Flexible Sheet. *Journal of Robotics and Mechatronics*, **2005**, 17, 302-309 | 0.7 | 9 |

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|---|---|---|---|
| 111 | Pose Estimation of Objects using Multiple ID Devices. *Journal of the Robotics Society of Japan*, **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. *Advanced Robotics*, **2010**, 24, 1557-1576 | 1.7 | 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. *ROBOMECH Journal*, **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. *Advanced Robotics*, **2002**, 16, 529-532 | 1.7 | 7 |
| 104 | A New Close-Loop Control Method for an Inspection Robot Equipped with Electropermanent-Magnets. *Journal of Robotics and Mechatronics*, **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. *IEEE Nanotechnology Magazine*, **2018**, 17, 688-691 | 2.6 | 6 |
| 101 | Object search using object co-occurrence relations derived from web content mining. *Intelligent Service Robotics*, **2014**, 7, 1-13 | 2.6 | 6 |
| 100 | Face relighting using discriminative 2D spherical spaces for face recognition. *Machine Vision and Applications*, **2014**, 25, 845-857 | 2.8 | 6 |
| 99 | Component-based robot system design for grasping tasks. *Intelligent Service Robotics*, **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. *Advanced Robotics*, **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 |

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|---|---|---|---|
| 93 | High-Speed Manipulation of Microobjects Using an Automated Two-Fingered Microhand for 3D Microassembly. *Micromachines*, **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. *Journal of Micro-Nano Mechatronics*, **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. *Journal of Robotics and Mechatronics*, **2003**, 15, 121-127 | 0.7 | 5 |
| 87 | Omni-Directional Gait of Multi-Legged Robot on Rough Terrain by Following the Virtual Plane. *Journal of Robotics and Mechatronics*, **2012**, 24, 71-85 | 0.7 | 5 |
| 86 | Object Tracking in Cluttered Background Based on Optical Flow and Edges.. *Journal of the Robotics Society of Japan*, **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. *ROBOMECH Journal*, **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. *Journal of Robotics and Mechatronics*, **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 |

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| 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. *Journal of the Robotics Society of Japan*, **2002**, 20, 631-639 | 0.1 | 3 |
| 70 | Omni-directional Locomotion of Robots with Limb Mechanism. *Journal of the Robotics Society of Japan*, **2004**, 22, 329-335 | 0.1 | 3 |
| 69 | Implementation of Cell Detection Mechanism on Microfluidic Chip. *Journal of the Robotics Society of Japan*, **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. *Intelligent Service Robotics*, **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. *International Journal of Social Robotics*, **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 |

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| 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. *Advanced Robotics*, **2005**, 19, 861-878 | 1.7 | 2 |
| 52 | High-Speed Focusing and Tracking of Multisized Microbiological Objects. *Journal of Robotics and Mechatronics*, **2013**, 25, 115-124 | 0.7 | 2 |
| 51 | Automated Construction System for 3D Lattice Structure Based on Alginate Gel Fiber Containing Living Cells. *Journal of Robotics and Mechatronics*, **2013**, 25, 665-672 | 0.7 | 2 |
| 50 | Parallel Mechanism with Adjustable Link Parameters. *Journal of the Robotics Society of Japan*, **2004**, 22, 140-147 | 0.1 | 2 |
| 49 | Expansion of Movable Area of Multi Legged Robot by Rotational Gait. *Journal of the Robotics Society of Japan*, **2010**, 28, 231-240 | 0.1 | 2 |
| 48 | Brain signal-based safety measure activation for robotic systems. *Advanced Robotics*, **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 |

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| 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.. *Journal of the Robotics Society of Japan*, **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.). *Journal of the Robotics Society of Japan*, **2001**, 19, 197-206 | 0.1 | 1 |
| 28 | Mobile Manipulation of Humanoid Robots. Analysis of the Required Function of Legs in Mobile Manipulation.. *Journal of the Robotics Society of Japan*, **2001**, 19, 660-666 | 0.1 | 1 |
| 27 | Tension Control and Force Estimation of Hybrid Drive Parallel Arm. *Journal of the Robotics Society of Japan*, **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.. *Journal of the Robotics Society of Japan*, **1999**, 17, 959-965 | 0.1 | 1 |
| 24 | Collision Avoidance Using Contact Information with Multiple Objects by Multi-Leg Robot. *Journal of Robotics and Mechatronics*, **2016**, 28, 17-30 | 0.7 | 1 |
| 23 | 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 | | 1 |
| 22 | 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 | 1 |

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|---|---|---|---|
| 21 | Detection for Particles Moving in Micro Channel with Multifiber Array Sensor. *IEEJ Transactions on Sensors and Micromachines*, **2012**, 132, 203-211 | 0.2 | 1 |
| 20 | Image Information Added Map Making Interface for Compensating Image Resolution. *Journal of Robotics and Mechatronics*, **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. *IEEE Robotics and Automation Letters*, **2022**, 7, 2385-2390 | 4.2 | 0 |
| 17 | Generating Whole Body Motion of Humanoid Robots for Manipulation Tasks. *Journal of the Robotics Society of Japan*, **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). *Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C*, **2010**, 76, 2628-2637 | | |
| 14 | 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 | | |
| 13 | 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 | |
| 12 | 206 Configuration Control of Redundant Manipulators Using AMSIP. *The Proceedings of Conference of Tokai Branch*, **2006**, 2006.55, 65-66 | 0 | |
| 11 | 124 Learning of Fish Movement Pattern. *The Proceedings of Conference of Tokai Branch*, **2006**, 2006.55, 47-48 | 0 | |
| 10 | 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 | |
| 9 | Evaluation of a mechanical stimulus to cellular nucleus by the microfluidic device. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2018**, 2018, 1A1-M16 | 0 | |
| 8 | S1510104 Infrastructure Inspection by Multi-legged Robot equipped with Electromagnet. *The Proceedings of Mechanical Engineering Congress Japan*, **2015**, 2015, _S1510104--_S1510104- | 0 | |
| 7 | Extraction of Grasping Region of Object for Automatic Modeling by Observing Human-object Interaction. *The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM*, **2015**, 2015.6, 131-132 | | |
| 6 | Microfluidic device to apply a mechanical stimulus and enable response evaluation onto cellular nucleus. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2017**, 2017, 2A1-F03 | 0 | |
| 5 | Automated Three-Dimensional Pose Estimation of Objects using Multiple ID Devices by Autonomous Robot. *The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM*, **2010**, 2010.5, 534-539 | | |
| 4 | Recognition and Removal of Interior Facilities by Vision-Based Robot System. *Journal of Robotics and Mechatronics*, **2010**, 22, 50-64 | 0.7 | |

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|---|---|---|
| 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 |