Masakatsu G Fujie

List of Publications by Year
in descending order

197 papers	1,246 citations	566801 15 h-index	642321 23 g-index
198 all docs	198 docs citations	198 times ranked	794 citing authors

#	Article	IF	Citations
1	NeuRobot: Telecontrolled Micromanipulator System for Minimally Invasive Microneurosurgeryâ€"Preliminary Results. Neurosurgery, 2002, 51, 985-988.	0.6	79
2	The Concept and Feasibility of EXPERT. Neurosurgery, 2013, 72, A39-A42.	0.6	44
3	Development of an integrated needle insertion system with image guidance and deformation simulation. Computerized Medical Imaging and Graphics, 2010, 34, 9-18.	3.5	39
4	Development of a needle insertion manipulator for central venous catheterization. International Journal of Medical Robotics and Computer Assisted Surgery, 2012, 8, 34-44.	1.2	34
5	Enhanced Targeting in Breast Tissue Using a Robotic Tissue Preloading-Based Needle Insertion System. IEEE Transactions on Robotics, 2012, 28, 710-722.	7.3	29
6	Pupil Variation Applied to the Eye Tracking Control of an Endoscopic Manipulator. IEEE Robotics and Automation Letters, 2016, 1, 531-538.	3.3	28
7	Bending Laser Manipulator for Intrauterine Surgery and Viscoelastic Model of Fetal Rat Tissue. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	26
8	Development and validation of a viscoelastic and nonlinear liver model for needle insertion. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 53-63.	1.7	22
9	Modeling of Viscoelastic and Nonlinear Material Properties of Liver Tissue using Fractional Calculations. Journal of Biomechanical Science and Engineering, 2012, 7, 177-187.	0.1	22
10	Design of four-arm four-crawler disaster response robot OCTOPUS. , 2016, , .		21
11	Development of a tool manipulator driven by a flexible shaft for Single Port Endoscopic Surgery. , 2010, , .		20
12	Development of a "steerable drill" for acl reconstruction to create the arbitrary trajectory of a bone tunnel. , 2011, , .		20
13	Simple empirical model for identifying rheological properties of soft biological tissues. Physical Review E, 2017, 95, 022418.	0.8	20
14	Myoelectric-Controlled Exoskeletal Elbow Robot to Suppress Essential Tremor: Extraction of Elbow Flexion Movement Using STFTs and TDNN. Journal of Robotics and Mechatronics, 2012, 24, 141-149.	0.5	19
15	Development of a hydraulic-driven flexible manipulator for neurosurgery. International Congress Series, 2003, 1256, 607-612.	0.2	18
16	Development of an Exoskeleton to Support Eating Movements in Patients with Essential Tremor. Journal of Robotics and Mechatronics, 2013, 25, 949-958.	0.5	18
17	In vitro validation of viscoelastic and nonlinear physical model of liver for needle insertion simulation. , 2008, , .		16
18	Development of robotic upper limb orthosis with tremor suppressiblity and elbow joint movability. , 2011, , .		16

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19	A novel optimal coordinated control strategy for the updated robot system for single port surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1844.	1.2	16
20	Anthropomorphic Dual-Arm Coordinated Control for a Single-Port Surgical Robot Based on Dual-Step Optimization. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 72-84.	2.1	16
21	Development of Real-Time Simulation for Workload Quantization in Robotic Tele-surgery. , 2006, , .		15
22	Developing an Intraoperative Methodology Using the Finite Element Method and the Extended Kalman Filter to Identify the Material Parameters of an Organ Model. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 469-74.	0.5	15
23	Monte-carlo Simulation of Light Propagation considering Characteristic of Near-infrared LED and Evaluation on Tissue Phantom. Procedia CIRP, 2013, 5, 25-30.	1.0	15
24	Use of puncture force measurement to investigate the conditions of blood vessel needle insertion. Medical Engineering and Physics, 2013, 35, 684-689.	0.8	15
25	Brain activation in parietal area during manipulation with a surgical robot simulator. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 783-790.	1.7	15
26	Extraction of voluntary movement for an EMG controlled exoskeltal robot of tremor patients. , 2009, , .		14
27	Analysis of EMG signals of patients with essential tremor focusing on the change of tremor frequency. , 2012, 2012, 2244-50.		14
28	Tremor frequency based filter to extract voluntary movement of patients with essential tremor. , 2012, , .		14
29	Viscoelastic and Nonlinear Organ Model for Control of Needle Insertion Manipulator. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1242-8.	0.5	13
30	Modeling of conditions where a puncture occurs during needle insertion considering probability distribution. , 2008, , .		13
31	An algorithm of walk phase estimation with only treadmill motor current. , 2009, , .		13
32	Adaptive controller for omni-directional walker: Improvement of dynamic model. , 2011, , .		13
33	Directional Intention Identification for Running Control of an Omnidirectional Walker. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2010, 14, 784-792.	0.5	13
34	Deformation simulation using a viscoelastic and nonlinear Organ model for control of a needle insertion manipulator. , 2007, , .		12
35	Leg-dependent force control for body weight support by gait cycle estimation from pelvic movement. , 2010, , .		12
36	Development of 6-DOF wire-driven robotic manipulator for minimally invasive fetal surgery. , 2011, , .		12

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37	Development of a smart surgical robot with bended forceps for infant congenital esophageal atresia surgery. , 2014, , .		12
38	Position control of needle tip with force feedback and liver model. International Congress Series, 2005, 1281, 719-724.	0.2	11
39	Evaluation of the Relationship Between the Viscoelastic Stress and Strain of Fetal Rat Skin as a Guide for Designing the Structure and Dynamic Performance of a Manipulator for Fetal Surgery. Surgery Today, 2006, 36, 701-706.	0.7	11
40	Fundamental study of force control method for pelvis-supporting body weight support system. , 2009, , .		11
41	Estimating a joint angle by means of muscle bulge movement along longitudinal direction of the forearm. , 2015, , .		11
42	State-of-the-art of intelligent minimally invasive surgical robots. Frontiers of Medicine, 2020, 14, 404-416.	1.5	11
43	Robotics for social safety. Advanced Robotics, 2001, 15, 383-387.	1.1	10
44	Developing a planning method for straight needle insertion using probability-based condition where a puncture occurs. , 2009, , .		10
45	Intelligent Trunk Corset to Support Rollover of Cancer Bone Metastasis Patients. IEEE/ASME Transactions on Mechatronics, 2010, 15, 181-190.	3.7	10
46	Intuitive operability evaluation of robotic surgery using brain activity measurement to identify hand-eye coordination. , 2012, , .		10
47	Directional control of an omnidirectional walking support walker: adaptation to individual differences with fuzzy learning. Advanced Robotics, 2014, 28, 479-485.	1.1	10
48	A magnetic resonance compatible surgical manipulator: part of a unified support system for the diagnosis and treatment of heart disease. Advanced Robotics, 2003, 17, 561-564.	1.1	9
49	Development of a New Mobility System "Tread-Walk" - Design of a Control Algorithm for Slope Movement-. , 2006, , .		9
50	Intelligent corset to support rollover of cancer bone metastasis patients - Mechanism to restrict the trunk ROM. , 2008, , .		9
51	Micro Macro Neural Network to Recognize Rollover Movement. Advanced Robotics, 2011, 25, 253-271.	1.1	9
52	Quantitative palpation to identify the material parameters of tissues using reactive force measurement and finite element simulation. , 2010, , .		8
53	The weight load inconsistency effect on voluntary movement recognition of essential tremor patient. , 2011, , .		7
54	Using Brain Activation to Evaluate Arrangements Aiding Hand–Eye Coordination in Surgical Robot Systems. IEEE Transactions on Biomedical Engineering, 2019, 66, 2352-2361.	2.5	7

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55	Gait Phase Detection Using Foot Acceleration for Estimating Ground Reaction Force in Long Distance Gait Rehabilitation. Journal of Robotics and Mechatronics, 2012, 24, 828-837.	0.5	7
56	Modeling the temperature dependence of thermal conductivity: Developing a system for robot-assisted RFA therapy. , 2008, , .		6
57	Evaluation and comparison of the nonlinear elastic properties of the soft tissues of the breast. , 2011, 2011, 7405-8.		6
58	Soft Interaction Between Body Weight Support System and Human Using Impedance Control Based on Fractional Calculus. Advanced Robotics, 2012, 26, 1253-1269.	1.1	6
59	Preliminary in vivo evaluation of a needle insertion manipulator for central venous catheterization. ROBOMECH Journal, 2014, 1, .	0.9	6
60	Development of an elbow-forearm interlock joint mechanism toward an exoskeleton for patients with essential tremor. , 2014, , .		6
61	Estimating wrist joint angle with limited skin deformation information. Journal of Biomechanical Science and Engineering, 2018, 13, 17-00596-17-00596.	0.1	6
62	Gait event detection based on inter-joint coordination using only angular information. Advanced Robotics, 2020, 34, 1190-1200.	1.1	6
63	Development of multi-DOF brain retract manipulator for minimally invasive neurosurgery. International Congress Series, 2003, 1256, 522-528.	0.2	5
64	Development of a novel approach, &#x201C;palpation based needle insertion,&#x201D; for breast cancer treatment. , 2009, , .		5
65	Fractional impedance control for reproducing the material properties of muscle and its application in a body weight support system. , 2010, , .		5
66	In vivo experiments of a surgical robot with vision field control for single port endoscopic surgery. , 2011, 2011, 7045-8.		5
67	Development of a novel FES control system based on treadmill motor current variation for gait rehabilitation of hemiplegic patients after stroke. , 2013, , .		5
68	Event classification in percutaneous treatments based on needle insertion force pattern analysis. , 2013, , .		5
69	Estimation of needle tissue interaction based on non-linear elastic modulus and friction force patterns. , 2014, , .		5
70	Virtually transparent surgical instruments in endoscopic surgery with augmentation of obscured regions. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1927-1936.	1.7	5
71	Position Control of Needle Tip Based on Physical Properties of Liver and Force Sensor. Journal of Robotics and Mechatronics, 2006, 18, 167-176.	0.5	5
72	Psychological Influence of Wheelchairs on the Elderly Persons from Qualitative Research of Daily Living. Journal of Robotics and Mechatronics, 2008, 20, 641-649.	0.5	5

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73	A Hybrid Manual/Motorized Mobility Device for Assisted Walking. Biomechanisms, 2006, 18, 101-112.	0.1	5
74	Micro Manipulator and Forceps Navigation for Endoscopic Fetal Surgery. Journal of Robotics and Mechatronics, 2006, 18, 257-263.	0.5	5
75	Development of HUMAN system with three micromanipulators for minimally invasive neurosurgery. International Congress Series, 2001, 1230, 143-148.	0.2	4
76	Development of a cane with a haptic interface using IC tags for the visually impaired. , 2009, , .		4
77	In vitro and in vivo validation of robotic palpation-based needle insertion method for breast tumor treatment. , 2011, , .		4
78	Evaluation of fetal tissue viscoelastic characteristics for robotic fetal surgery. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 797-802.	1.7	4
79	Geometry effect of preloading probe on accurate needle insertion for breast tumor treatment. , 2012, , .		4
80	Gait-controlled mobility-aid robot: Treadmill motor current based anteroposterior force estimation using frictional model reflects characteristics of ground reaction force. , 2012, , .		4
81	Design of an Insertable Surgical Robot with multi-level endoscopic control for Single Port Access Surgery. , 2013, , .		4
82	A novel smart surgical robotic system with eye-hand coordination for surgical assistance. , 2014, , .		4
83	Design, kinematics, simulation of omni-directional bending reachability for a parallel structure forceps manipulator. , 2016, , .		4
84	Design parameter evaluation based on human operation for tip mechanism of forceps manipulator using surgical robot simulation. Advanced Robotics, 2016, 30, 476-488.	1.1	4
85	Algorithm to demodulate an electromyogram signal modulated by essential tremor. ROBOMECH Journal, 2017, 4, .	0.9	4
86	Probabilistic neural network applied to eye tracking control to alter the direction of an endoscopic manipulator. Mechanical Engineering Journal, 2017, 4, 15-00568-15-00568.	0.2	4
87	Prediction Algorithm of Parameters of Toe Clearance in the Swing Phase. Applied Bionics and Biomechanics, 2019, 2019, 1-10.	0.5	4
88	Development of a Tool Manipulator Driven by a Flexible Shaft for Single-Port Endoscopic Surgery. Journal of Robotics and Mechatronics, 2011, 23, 1115-1124.	0.5	4
89	Intuitive Operability Evaluation of Robotic Surgery Using Brain Activity Measurements to Clarify Immersive Reality. Journal of Robotics and Mechatronics, 2013, 25, 162-171.	0.5	4
90	Evaluation of Hand-Eye Coordination Based on Brain Activity. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2015, 19, 143-151.	0.5	4

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91	Estimation of Rotator Cuff Activity Using a Surface EMG during Shoulder External Rotation. , 2006, , .		3
92	Proposition of Development Concept of Mobility Aids Based on Psychological Model of Older Persons. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2007, 73, 266-273.	0.2	3
93	A new mobility-aid vehicle with a unique turning system. , 2008, , .		3
94	Development of a palpation system to help provide accurate robotic needle insertion during the treatment of breast cancer. , 2009, , .		3
95	Mechanism and evaluation of a haptic interface "Force Blinker 2" for navigation of the visually impaired. , 2010, , .		3
96	Fractional impedance control for reproducing the material properties of muscle. , 2010, , .		3
97	Split belt treadmill with differential velocity and biofeedback for well-balanced gait of patient with stroke. , 2010, , .		3
98	User directional intention recognition of an omnidirectional walking support walker. , 2011, , .		3
99	Directional control of an omnidirectional walker for walking support with forearm pressures. , 2011, , .		3
100	A Gait Phase Measurement System Using Treadmill Motor Current. Advanced Robotics, 2012, 26, 1727-1746.	1.1	3
101	User directional intention identification for a walking support walker: Adaptation to individual differences with fuzzy learning. , 2012, , .		3
102	Biofeedback Effect of Thoracic Excursion in Chest Expansion Training. Journal of Biomechanical Science and Engineering, 2012, 7, 328-334.	0.1	3
103	Study on method to simulate light propagation on tissue with characteristics of radial-beam LED based on Monte-carlo method. , 2013, 2013, 25-8.		3
104	Evaluating Proficiency on a Laparoscopic Suturing Task through Pupil Size. , 2015, , .		3
105	Pupil variation for use in zoom control. , 2016, , .		3
106	High path tracking control of an intelligent walking-support robot under time-varying friction and unknown parameters. Advanced Robotics, 2017, 31, 739-752.	1.1	3
107	Accuracy to detection timing for assisting repetitive facilitation exercise system using MRCP and SVM. Robotics and Biomimetics, 2017, 4, 12.	1.7	3
108	Effect of the timing of force application on the toe trajectory in the swing phase for a wire-driven gait assistance robot. Mechanical Engineering Journal, 2018, 5, 17-00660-17-00660.	0.2	3

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109	Efficient multiâ€parameter calibration method for CVC assist robot with servoâ€navigation system. Journal of Engineering, 2019, 2019, 536-542.	0.6	3
110	Non-minimum phase viscoelastic properties of soft biological tissues. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103795.	1.5	3
111	Development of a Soft Exosuit for Suppressing Essential Tremor. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 783-790.	2.1	3
112	Virtual Shadow Drawing System Using Augmented Reality for Laparoscopic Surgery. Advanced Biomedical Engineering, 2022, 11, 87-97.	0.4	3
113	Parameter setting method considering variation of organ stiffness for the control method to prevent overload at fragile tissue. , 2009, , .		2
114	Motion control of omni-directional walker for walking support. , 2011, , .		2
115	Development of a robotic manipulator system for Congenital Diaphragmatic Hernia. , 2011, , .		2
116	Application of control modes of a master manipulator for a robotic system to assist with single port endoscopic surgery. , 2012, , .		2
117	Configuration of slave and endoscope in surgical robot based on brain activity measurement. , 2012, , .		2
118	Developing an ankle-foot muscular model using Bayesian estimation for the influence of an ankle foot orthosis on muscles. , 2012, , .		2
119	Automatic fetal face detection by locating fetal facial features from 3D ultrasound images for navigating fetoscopic tracheal occlusion surgeries. , 2013, , .		2
120	Adaptive control of an omni-directional walker considering the forces caused by user. , 2013, , .		2
121	Effect of the thickness and nonlinear elasticity of tissue on the success of surgical stapling for laparoscopic liver resection. , 2014, 2014, 353-6.		2
122	Preloading based needle insertion with a concave probe to enhance targeting in breast tissue. ROBOMECH Journal, 2014, 1, .	0.9	2
123	The effect of forceps manipulation for expert pediatric surgeons using an endoscopic pseudo-viewpoint alternating system: the phenomenon of economical slow and fast performance in endoscopic surgery. Pediatric Surgery International, 2015, 31, 971-976.	0.6	2
124	An improved approach for model-based detection and pose estimation of texture-less objects. , 2016, , .		2
125	An image processing method for changing endoscope direction based on pupil movement. ROBOMECH Journal, 2016, 3, .	0.9	2
126	Development of a Dexterous Manipulator for Single Port Access Surgery. , 2016, , 37-56.		2

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127	Development of angle information system to facilitate the adjustment of needle-holding posture. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2003-2013.	1.7	2
128	Optimization problem of motion speed and muscle fatigue for development of the typing assisting device. Transactions of the JSME (in Japanese), 2017, 83, 16-00414-16-00414.	0.1	2
129	Navigation system for central venous puncture assist robot based on haptic feedback. , 2017, , .		2
130	Development of Driving Intention Prediction System Based on Human Cognitive Mechanism. , 2018, , .		2
131	Variable Interlock Mechanism Joining Shoulder Rotation and Elbow Flexion for Body-Powered Upper Limb Prostheses. , 2018, , .		2
132	Development of a New Variable Curvature Flexible Joint Based Surgical Manipulator for a Narrow Workspace. , 2019, , .		2
133	Flexible needle posture control stratagem for ultrasound-based puncture manipulator system. Advanced Robotics, 2020, 34, 45-56.	1.1	2
134	Brainâ€"Machine Interface Using Functional Electrical Stimulation and Motion-Related Cortical Potentials Identified by a Support Vector Machine. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1013-1021.	3.7	2
135	Using Operator Gaze Tracking to Design Wrist Mechanism for Surgical Robots. IEEE Transactions on Human-Machine Systems, 2021, 51, 376-383.	2.5	2
136	Response Evaluation of Rollover Recognition in Myoelectric Controlled Orthosis Using Pneumatic Rubber Muscle for Cancer Bone Metastasis Patient. Journal of Robotics and Mechatronics, 2011, 23, 302-309.	0.5	2
137	Dual-Armed Surgical Master-Slave Manipulator System with MR Compatibility. Journal of Robotics and Mechatronics, 2005, 17, 285-292.	0.5	2
138	J1102-3-5 A New Walker for the Rehabilitation and Support Indoor Moving. The Proceedings of the JSME Annual Meeting, 2009, 2009.7, 283-284.	0.0	2
139	Gait Training Robot with Intermittent Force Application based on Prediction of Minimum Toe Clearance. , 2020, , .		2
140	A New Method to Extend Applicable Area of Minimally Invasive Neurosurgery by Brain Retract Manipulator. Lecture Notes in Computer Science, 2003, , 190-197.	1.0	1
141	Robotic Creation of Operating Space for Minimally Invasive Hip Joint Surgery. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	1
142	The correlation between perception of motion lag and phase lag in tele-operation robot system. , 2009, , .		1
143	Optimal design of a micro macro neural network to recognize rollover movement. , 2009, , .		1
144	Integrated system for RFA therapy with biomechanical simulation and needle insertion robot. , 2009, , .		1

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145	Collapse Simulation of Lung for System to Navigate Tumor Position. Journal of Japan Society of Computer Aided Surgery, 2010, 12, 13-21.	0.1	1
146	EMG based design and evaluation of Micro Macro Neural Network for rollover support trunk orthosis. , 2010, , .		1
147	Study of activation in motor cortex during mental imagery of walking using fNIRS. , 2011, , .		1
148	Orthopaedic Physical Examination Assisting System for Improvement of Accuracy and Reproducibility of Knee Laxity Diagnosis. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2011, 5, 358-371.	0.3	1
149	Repeatability analysis of rollover recognition in changing myoelectric electrode condition. , 2011, 2011, 619-23.		1
150	Pelvic motion analysis for gait phase estimation during gait training with body weight support. , 2011, , .		1
151	Pilot study on effectiveness of simulation for surgical robot design using manipulability. , 2011, 2011, 4538-41.		1
152	An improved adaptive controller with parameter optimization by GA for an omni-directional walker. , 2012, , .		1
153	Frictional Force Modeling Ranging from Hyper to Slow Relative Velocity between a Needle and Liver Tissue. Journal of Biomechanical Science and Engineering, 2012, 7, 305-317.	0.1	1
154	Brain activity measurement based evaluation of active control of a treadmill. , 2012, , .		1
155	Developing a method to plan robotic straight needle insertion using a probability-based assessment of puncture occurrence. Advanced Robotics, 2013, 27, 417-430.	1.1	1
156	Simulation of light propagation through multi-layer tissue with a tilted boundary using a radial-beam light-emitting diode for liposuction. , 2013, , .		1
157	Quantification of operability for surgical robot using f-NIRS. Journal of Japan Society of Computer Aided Surgery, 2014, 16, 61-69.	0.1	1
158	Foot pressure and posture information-based visual feedback system for well-balanced gait in older people. , 2015, , .		1
159	Method for estimating the temperature distribution associated with the vessel cooling effect in radio frequency ablation. , 2015, 2015, 4836-9.		1
160	Integration of visual feedback system and motor current based gait rehabilitation robot for motor recovery. , 2016, , .		1
161	Wrist joint angle estimation by means of muscle bulge based on deformation of the forearm skin surface. , 2016, , .		1
162	Kinematics analysis and motion planning of a redundant robotic manipulator for surgical intervention. , 2017, , .		1

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163	Motor command detection for a repetitive facilitation exercise assistance system. , 2017, , .		1
164	Intermittent Force Application of Wire-Driven Gait Training Robot to Encourage User to Learn an Induced Gait. , 2018, , .		1
165	Effectiveness of Mechanical Design Optimization Using a Human-in-the-Loop Simulator for the Development of a Pediatric Surgical Robot. Applied Sciences (Switzerland), 2019, 9, 4136.	1.3	1
166	Evaluation of Virtual Shadow's Direction in Laparoscopic Surgery. , 2020, , .		1
167	Determination of the Gain for a Walking Speed Amplifying Belt Using Brain Activity. IEEE Transactions on Human-Machine Systems, 2020, 50, 154-164.	2.5	1
168	Development of a Hydraulically-Driven Flexible Manipulator for Neurosurgery. Journal of Robotics and Mechatronics, 2005, 17, 149-157.	0.5	1
169	2A1-L13 Development of a gait analysis system : Measurement accuracy in indoor environment. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2009, 2009, _2A1-L13_1-_2A1-L13_2.	0.0	1
170	2A2-G29 Development of a geostationary satellite type gait analysis system : Evaluation of 3D magnetic distortion distribution. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2010, 2010, _2A2-G29_1-_2A2-G29_2.	0.0	1
171	Development of a precise control method for a medical robot working with stiff tissues during hip-joint surgery. , 2007, , .		0
172	Muscle Scraping Manipulator for Minimally Invasive Hip Joint Surgery (System Design and Evaluation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Mechanical Engineers, Part C, 2008, 74, 372-379.	0.2	0
173	Development of Workspace-creation Manipulator for Minimally Invasive Neurosurgery: Manipulator control method for excess retraction avoidance. Journal of Japan Society of Computer Aided Surgery, 2009, 11, 457-466.	0.1	0
174	Development of Workspace-Creation Manipulator for Minimally Invasive Neurosurgery : Mechanical Design of the Manipulator and Evaluation Experiment(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 304-312.	0.2	0
175	Recognition of Outer Muscle's EMG and Inner Muscle's EMG Using Support Vector Machine : Recognition of Abduction and External Rotation Movements of Shoulder Joint(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 297-303.	0.2	0
176	Organ biomechanical simulators for model based control of robotic RF ablation system. , 2010, , .		0
177	Development and evaluation of an identification method for the biomechanical parameters using robotic force measurements, medical images, and FEA. , 2011, 2011, 5386-91.		0
178	Palpation nonlinear reaction force analysis for characterization of breast tissues. , 2011, 2011, 7393-6.		0
179	Combined collision avoidance and prevention of soft tissue damage control method for surgical robots. , 2012, , .		0
180	Development of a Distance Measurement System to Organ by a Stereo Rigid Endoscope: Design of a Prototype and Evaluation of Distance Measurement Accuracy. Journal of Japan Society of Computer Aided Surgery, 2012, 14, 71-80.	0.1	0

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181	Study of Anatomical Landmark Sampling Error Effect on Motion Measurement Reproducibility for Orthopaedic Physical Examination Assisting System. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2013, 7, 125-139.	0.3	0
182	Human Learning Strategy in Multi-Movement Discrimination (Leg Controlled Electric Wheelchair) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 of Mechanical Engineers, Part C, 2013, 79, 2037-2047.	0.2	0
183	Development of a novel gait rehabilitation system by integrating functional electrical stimulation and a split belt treadmill for hemiparetic patients after stroke. , 2014, , .		0
184	Development of an endoscopic manipulator control system with intention recognition based on pupil movement. , 2015, , .		0
185	Relation between magnitude of applied torque during pre-swing phase and toe clearance change to prevent trip of elderly people. , 2016, , .		0
186	Similarity evaluation of multiple muscles hardness change due to static stretching using wearable indentation testers: A pilot study. , 2017, , .		0
187	Development of a Flexible Surgical Manipulator with a Variable Curvature Bendable Joint. , 2019, , .		0
188	Title is missing!. Journal of the Robotics Society of Japan, 2007, 25, 337-339.	0.0	0
189	Development of Needle Insertion Manipulator for Central Venous Catheterization. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 870-879.	0.1	0
190	144 Directional Control with Forearm Pressures for an Omnidirectional Walking Support Walker. The Proceedings of the Dynamics & Design Conference, 2011, 2011, _144-1_-_144-6_.	0.0	0
191	Cut-Off Man Performance Using a Real-time Bird Eye View Feedback System from a Drone. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 9-10.	0.0	0
192	Investigation of the Effect of Joint Angle on Muscle Hardness in Static Stretching of the Gastrocnemius. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 267-268.	0.0	0
193	J1630203 Development of Walking Balance Training Device for the Elderly Persons with Visual Feedback System Using Foot Pressure and Posture Information. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J1630203-_J1630203-.	0.0	0
194	Grasping Force of the Handle Based Turning Algorithm for "Tread-Walk 1". The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 181-182.	0.0	0
195	The Influence of Applying Torque in the Pre-swing Phase on the Minimum Toe Clearance for Prevention of Falls in Elderly People. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 251-252.	0.0	0
196	Brain activation measurement for motion gain decision of surgical endoscope manipulation. International Journal of Medical Robotics and Computer Assisted Surgery, 2022, 18, e2371.	1.2	0
197	Development and experiment of a kneed biped walking robot based on parametric excitation principle. , 2011, , .		0