

# Masakatsu G Fujie

## List of Publications by Year in descending order

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197  
papers

1,246  
citations

566801

15  
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642321

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g-index

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all docs

198  
docs citations

198  
times ranked

794  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Virtual Shadow Drawing System Using Augmented Reality for Laparoscopic Surgery. Advanced Biomedical Engineering, 2022, 11, 87-97.	0.4	3
4	Brain-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
5	Using Operator Gaze Tracking to Design Wrist Mechanism for Surgical Robots. IEEE Transactions on Human-Machine Systems, 2021, 51, 376-383.	2.5	2
6	Development of a Soft Exosuit for Suppressing Essential Tremor. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 783-790.	2.1	3
7	Flexible needle posture control stratagem for ultrasound-based puncture manipulator system. Advanced Robotics, 2020, 34, 45-56.	1.1	2
8	State-of-the-art of intelligent minimally invasive surgical robots. Frontiers of Medicine, 2020, 14, 404-416.	1.5	11
9	Evaluation of Virtual Shadow's Direction in Laparoscopic Surgery. , 2020, , .		1
10	Gait event detection based on inter-joint coordination using only angular information. Advanced Robotics, 2020, 34, 1190-1200.	1.1	6
11	Non-minimum phase viscoelastic properties of soft biological tissues. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103795.	1.5	3
12	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
13	Gait Training Robot with Intermittent Force Application based on Prediction of Minimum Toe Clearance. , 2020, , .		2
14	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
15	Prediction Algorithm of Parameters of Toe Clearance in the Swing Phase. Applied Bionics and Biomechanics, 2019, 2019, 1-10.	0.5	4
16	Efficient multi-parameter calibration method for CVC assist robot with servo-navigation system. Journal of Engineering, 2019, 2019, 536-542.	0.6	3
17	Development of a Flexible Surgical Manipulator with a Variable Curvature Bendable Joint. , 2019, , .		0
18	Development of a New Variable Curvature Flexible Joint Based Surgical Manipulator for a Narrow Workspace. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	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
20	Estimating wrist joint angle with limited skin deformation information. Journal of Biomechanical Science and Engineering, 2018, 13, 17-00596-17-00596.	0.1	6
21	Intermittent Force Application of Wire-Driven Gait Training Robot to Encourage User to Learn an Induced Gait. , 2018, , .		1
22	Development of Driving Intention Prediction System Based on Human Cognitive Mechanism. , 2018, , .		2
23	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
24	Variable Interlock Mechanism Joining Shoulder Rotation and Elbow Flexion for Body-Powered Upper Limb Prostheses. , 2018, , .		2
25	Simple empirical model for identifying rheological properties of soft biological tissues. Physical Review E, 2017, 95, 022418.	0.8	20
26	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
27	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
28	Algorithm to demodulate an electromyogram signal modulated by essential tremor. ROBOMECH Journal, 2017, 4, .	0.9	4
29	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
30	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
31	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
32	Kinematics analysis and motion planning of a redundant robotic manipulator for surgical intervention. , 2017, , .		1
33	Navigation system for central venous puncture assist robot based on haptic feedback. , 2017, , .		2
34	Accuracy to detection timing for assisting repetitive facilitation exercise system using MRCP and SVM. Robotics and Biomimetics, 2017, 4, 12.	1.7	3
35	Motor command detection for a repetitive facilitation exercise assistance system. , 2017, , .		1
36	Similarity evaluation of multiple muscles hardness change due to static stretching using wearable indentation testers: A pilot study. , 2017, , .		0

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37	Integration of visual feedback system and motor current based gait rehabilitation robot for motor recovery. , 2016, , .		1
38	An improved approach for model-based detection and pose estimation of texture-less objects. , 2016, , .		2
39	Wrist joint angle estimation by means of muscle bulge based on deformation of the forearm skin surface. , 2016, , .		1
40	Design, kinematics, simulation of omni-directional bending reachability for a parallel structure forceps manipulator. , 2016, , .		4
41	Relation between magnitude of applied torque during pre-swing phase and toe clearance change to prevent trip of elderly people. , 2016, , .		0
42	Pupil variation for use in zoom control. , 2016, , .		3
43	Design of four-arm four-crawler disaster response robot OCTOPUS. , 2016, , .		21
44	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
45	Pupil Variation Applied to the Eye Tracking Control of an Endoscopic Manipulator. IEEE Robotics and Automation Letters, 2016, 1, 531-538.	3.3	28
46	An image processing method for changing endoscope direction based on pupil movement. ROBOMECH Journal, 2016, 3, .	0.9	2
47	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
48	Development of a Dexterous Manipulator for Single Port Access Surgery. , 2016, , 37-56.		2
49	Development of an endoscopic manipulator control system with intention recognition based on pupil movement. , 2015, , .		0
50	Estimating a joint angle by means of muscle bulge movement along longitudinal direction of the forearm. , 2015, , .		11
51	Foot pressure and posture information-based visual feedback system for well-balanced gait in older people. , 2015, , .		1
52	Method for estimating the temperature distribution associated with the vessel cooling effect in radio frequency ablation. , 2015, 2015, 4836-9.		1
53	Evaluating Proficiency on a Laparoscopic Suturing Task through Pupil Size. , 2015, , .		3
54	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

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55	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. <i>Pediatric Surgery International</i> , 2015, 31, 971-976.	0.6	2
56	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
57	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
58	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
59	Evaluation of Hand-Eye Coordination Based on Brain Activity. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2015, 19, 143-151.	0.5	4
60	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
61	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
62	A novel smart surgical robotic system with eye-hand coordination for surgical assistance. , 2014, , .		4
63	Effect of the thickness and nonlinear elasticity of tissue on the success of surgical stapling for laparoscopic liver resection. , 2014, 2014, 353-6.		2
64	Development of a smart surgical robot with bended forceps for infant congenital esophageal atresia surgery. , 2014, , .		12
65	Preliminary in vivo evaluation of a needle insertion manipulator for central venous catheterization. <i>ROBOMECH Journal</i> , 2014, 1, .	0.9	6
66	Development of an elbow-forearm interlock joint mechanism toward an exoskeleton for patients with essential tremor. , 2014, , .		6
67	Estimation of needle tissue interaction based on non-linear elastic modulus and friction force patterns. , 2014, , .		5
68	Preloading based needle insertion with a concave probe to enhance targeting in breast tissue. <i>ROBOMECH Journal</i> , 2014, 1, .	0.9	2
69	Development of a novel gait rehabilitation system by integrating functional electrical stimulation and a split belt treadmill for hemiparetic patients after stroke. , 2014, , .		0
70	Directional control of an omnidirectional walking support walker: adaptation to individual differences with fuzzy learning. <i>Advanced Robotics</i> , 2014, 28, 479-485.	1.1	10
71	Quantification of operability for surgical robot using f-NIRS. <i>Journal of Japan Society of Computer Aided Surgery</i> , 2014, 16, 61-69.	0.1	1
72	Automatic fetal face detection by locating fetal facial features from 3D ultrasound images for navigating fetoscopic tracheal occlusion surgeries. , 2013, , .		2

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73	Design of an Insertable Surgical Robot with multi-level endoscopic control for Single Port Access Surgery. , 2013, , .		4
74	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
75	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
76	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
77	Adaptive control of an omni-directional walker considering the forces caused by user. , 2013, , .		2
78	Development of a novel FES control system based on treadmill motor current variation for gait rehabilitation of hemiplegic patients after stroke. , 2013, , .		5
79	Simulation of light propagation through multi-layer tissue with a tilted boundary using a radial-beam light-emitting diode for liposuction. , 2013, , .		1
80	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
81	Event classification in percutaneous treatments based on needle insertion force pattern analysis. , 2013, , .		5
82	The Concept and Feasibility of EXPERT. Neurosurgery, 2013, 72, A39-A42.	0.6	44
83	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
84	Human Learning Strategy in Multi-Movement Discrimination (Leg Controlled Electric Wheelchair) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 of Mechanical Engineers, Part C, 2013, 79, 2037-2047.	0.2	0
85	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
86	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
87	Intuitive operability evaluation of robotic surgery using brain activity measurement to identify hand-eye coordination. , 2012, , .		10
88	A Gait Phase Measurement System Using Treadmill Motor Current. Advanced Robotics, 2012, 26, 1727-1746.	1.1	3
89	User directional intention identification for a walking support walker: Adaptation to individual differences with fuzzy learning. , 2012, , .		3
90	An improved adaptive controller with parameter optimization by GA for an omni-directional walker. , 2012, , .		1

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91	Geometry effect of preloading probe on accurate needle insertion for breast tumor treatment. , 2012, , .		4
92	Analysis of EMG signals of patients with essential tremor focusing on the change of tremor frequency. , 2012, 2012, 2244-50.		14
93	Application of control modes of a master manipulator for a robotic system to assist with single port endoscopic surgery. , 2012, , .		2
94	Combined collision avoidance and prevention of soft tissue damage control method for surgical robots. , 2012, , .		0
95	Tremor frequency based filter to extract voluntary movement of patients with essential tremor. , 2012, , .		14
96	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
97	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
98	Biofeedback Effect of Thoracic Excursion in Chest Expansion Training. Journal of Biomechanical Science and Engineering, 2012, 7, 328-334.	0.1	3
99	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
100	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
101	Brain activity measurement based evaluation of active control of a treadmill. , 2012, , .		1
102	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
103	Configuration of slave and endoscope in surgical robot based on brain activity measurement. , 2012, , .		2
104	Developing an ankle-foot muscular model using Bayesian estimation for the influence of an ankle foot orthosis on muscles. , 2012, , .		2
105	Gait-controlled mobility-aid robot: Treadmill motor current based anteroposterior force estimation using frictional model reflects characteristics of ground reaction force. , 2012, , .		4
106	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
107	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
108	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

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109	Motion control of omni-directional walker for walking support. , 2011, , .		2
110	In vitro and in vivo validation of robotic palpation-based needle insertion method for breast tumor treatment. , 2011, , .		4
111	Adaptive controller for omni-directional walker: Improvement of dynamic model. , 2011, , .		13
112	Study of activation in motor cortex during mental imagery of walking using fNIRS. , 2011, , .		1
113	The weight load inconsistency effect on voluntary movement recognition of essential tremor patient. , 2011, , .		7
114	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
115	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
116	Development of a "steerable drill" for acl reconstruction to create the arbitrary trajectory of a bone tunnel. , 2011, , .		20
117	Micro Macro Neural Network to Recognize Rollover Movement. Advanced Robotics, 2011, 25, 253-271.	1.1	9
118	Repeatability analysis of rollover recognition in changing myoelectric electrode condition. , 2011, 2011, 619-23.		1
119	Development and evaluation of an identification method for the biomechanical parameters using robotic force measurements, medical images, and FEA. , 2011, 2011, 5386-91.		0
120	Development of robotic upper limb orthosis with tremor suppressibility and elbow joint movability. , 2011, , .		16
121	Pelvic motion analysis for gait phase estimation during gait training with body weight support. , 2011, , .		1
122	Evaluation and comparison of the nonlinear elastic properties of the soft tissues of the breast. , 2011, 2011, 7405-8.		6
123	In vivo experiments of a surgical robot with vision field control for single port endoscopic surgery. , 2011, 2011, 7045-8.		5
124	Development of 6-DOF wire-driven robotic manipulator for minimally invasive fetal surgery. , 2011, , .		12
125	Pilot study on effectiveness of simulation for surgical robot design using manipulability. , 2011, 2011, 4538-41.		1
126	User directional intention recognition of an omnidirectional walking support walker. , 2011, , .		3



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127	Palpation nonlinear reaction force analysis for characterization of breast tissues. , 2011, 2011, 7393-6.		0
128	Directional control of an omnidirectional walker for walking support with forearm pressures. , 2011, , .		3
129	Development of a robotic manipulator system for Congenital Diaphragmatic Hernia. , 2011, , .		2
130	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
131	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
132	Development of Needle Insertion Manipulator for Central Venous Catheterization. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 870-879.	0.1	0
133	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
134	Development and experiment of a kneed biped walking robot based on parametric excitation principle. , 2011, , .		0
135	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
136	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
137	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
138	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
139	Leg-dependent force control for body weight support by gait cycle estimation from pelvic movement. , 2010, , .		12
140	EMG based design and evaluation of Micro Macro Neural Network for rollover support trunk orthosis. , 2010, , .		1
141	Mechanism and evaluation of a haptic interface &#x201C;Force Blinker 2&#x201D; for navigation of the visually impaired. , 2010, , .		3
142	Quantitative palpation to identify the material parameters of tissues using reactive force measurement and finite element simulation. , 2010, , .		8
143	Fractional impedance control for reproducing the material properties of muscle. , 2010, , .		3
144	Fractional impedance control for reproducing the material properties of muscle and its application in a body weight support system. , 2010, , .		5

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145	Development of a tool manipulator driven by a flexible shaft for Single Port Endoscopic Surgery. , 2010, , .		20
146	Intelligent Trunk Corset to Support Rollover of Cancer Bone Metastasis Patients. IEEE/ASME Transactions on Mechatronics, 2010, 15, 181-190.	3.7	10
147	Organ biomechanical simulators for model based control of robotic RF ablation system. , 2010, , .		0
148	Split belt treadmill with differential velocity and biofeedback for well-balanced gait of patient with stroke. , 2010, , .		3
149	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
150	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
151	Developing a planning method for straight needle insertion using probability-based condition where a puncture occurs. , 2009, , .		10
152	Development of a palpation system to help provide accurate robotic needle insertion during the treatment of breast cancer. , 2009, , .		3
153	Parameter setting method considering variation of organ stiffness for the control method to prevent overload at fragile tissue. , 2009, , .		2
154	Development of a cane with a haptic interface using IC tags for the visually impaired. , 2009, , .		4
155	The correlation between perception of motion lag and phase lag in tele-operation robot system. , 2009, , .		1
156	An algorithm of walk phase estimation with only treadmill motor current. , 2009, , .		13
157	Optimal design of a micro macro neural network to recognize rollover movement. , 2009, , .		1
158	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
159	Fundamental study of force control method for pelvis-supporting body weight support system. , 2009, , .		11
160	Extraction of voluntary movement for an EMG controlled exoskeletal robot of tremor patients. , 2009, , .		14
161	Integrated system for RFA therapy with biomechanical simulation and needle insertion robot. , 2009, , .		1
162	Development of a novel approach, &#x201C;palpation based needle insertion,&#x201D; for breast cancer treatment. , 2009, , .		5

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163	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
164	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
165	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
166	Modeling the temperature dependence of thermal conductivity: Developing a system for robot-assisted RFA therapy. , 2008, , .		6
167	Intelligent corset to support rollover of cancer bone metastasis patients - Mechanism to restrict the trunk ROM. , 2008, , .		9
168	In vitro validation of viscoelastic and nonlinear physical model of liver for needle insertion simulation. , 2008, , .		16
169	Modeling of conditions where a puncture occurs during needle insertion considering probability distribution. , 2008, , .		13
170	A new mobility-aid vehicle with a unique turning system. , 2008, , .		3
171	Muscle Scraping Manipulator for Minimally Invasive Hip Joint Surgery (System Design and Evaluation) Tj ETQq1 1 0.784314 rgBT /Over Mechanical Engineers, Part C, 2008, 74, 372-379.	0.2	0
172	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
173	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
174	Robotic Creation of Operating Space for Minimally Invasive Hip Joint Surgery. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	1
175	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
176	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
177	Development of a precise control method for a medical robot working with stiff tissues during hip-joint surgery. , 2007, , .		0
178	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
179	Deformation simulation using a viscoelastic and nonlinear Organ model for control of a needle insertion manipulator. , 2007, , .		12
180	Title is missing!. Journal of the Robotics Society of Japan, 2007, 25, 337-339.	0.0	0

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181	Development of Real-Time Simulation for Workload Quantization in Robotic Tele-surgery. , 2006, , .		15
182	Estimation of Rotator Cuff Activity Using a Surface EMG during Shoulder External Rotation. , 2006, , .		3
183	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
184	Development of a New Mobility System "Tread-Walk" - Design of a Control Algorithm for Slope Movement-. , 2006, , .		9
185	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
186	A Hybrid Manual/Motorized Mobility Device for Assisted Walking. Biomechanisms, 2006, 18, 101-112.	0.1	5
187	Micro Manipulator and Forceps Navigation for Endoscopic Fetal Surgery. Journal of Robotics and Mechatronics, 2006, 18, 257-263.	0.5	5
188	Position control of needle tip with force feedback and liver model. International Congress Series, 2005, 1281, 719-724.	0.2	11
189	Development of a Hydraulically-Driven Flexible Manipulator for Neurosurgery. Journal of Robotics and Mechatronics, 2005, 17, 149-157.	0.5	1
190	Dual-Armed Surgical Master-Slave Manipulator System with MR Compatibility. Journal of Robotics and Mechatronics, 2005, 17, 285-292.	0.5	2
191	Development of multi-DOF brain retract manipulator for minimally invasive neurosurgery. International Congress Series, 2003, 1256, 522-528.	0.2	5
192	Development of a hydraulic-driven flexible manipulator for neurosurgery. International Congress Series, 2003, 1256, 607-612.	0.2	18
193	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
194	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
195	NeuRobot: Telecontrolled Micromanipulator System for Minimally Invasive Microneurosurgeryâ€”Preliminary Results. Neurosurgery, 2002, 51, 985-988.	0.6	79
196	Development of HUMAN system with three micromanipulators for minimally invasive neurosurgery. International Congress Series, 2001, 1230, 143-148.	0.2	4
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