Toshio Tsuji

List of Publications by Year
in descending order

405 papers	4,409 citations	172457 29 h-index	168389 53 g-index
416 all docs	416 docs citations	416 times ranked	2965 citing authors

#	Article	IF	Citations
1	A human-assisting manipulator teleoperated by EMG signals and arm motions. IEEE Transactions on Automation Science and Engineering, 2003, 19, 210-222.	2.3	416
2	Human hand impedance characteristics during maintained posture. Biological Cybernetics, 1995, 72, 475-485.	1.3	397
3	A Hybrid Motion Classification Approach for EMG-Based Human–Robot Interfaces Using Bayesian and Neural Networks. IEEE Transactions on Robotics, 2009, 25, 502-511.	10.3	137
4	Active antenna for contact sensing. IEEE Transactions on Automation Science and Engineering, 1998, 14, 278-291.	2.3	133
5	A log-linearized Gaussian mixture network and its application to EEG pattern classification. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 1999, 29, 60-72.	2.9	130
6	A myoelectric prosthetic hand with muscle synergy–based motion determination and impedance model–based biomimetic control. Science Robotics, 2019, 4, .	17.6	110
7	Tracking Control Properties of Human–Robotic Systems Based on Impedance Control. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2005, 35, 523-535.	2.9	95
8	Further insight into the task-dependent excitability of motor evoked potentials in first dorsal interosseous muscle in humans. Experimental Brain Research, 2001, 140, 387-396.	1.5	70
9	Bio-mimetic trajectory generation of robots via artificial potential field with time base generator. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2002, 32, 426-439.	2.9	64
10	A recurrent log-linearized gaussian mixture network. IEEE Transactions on Neural Networks, 2003, 14, 304-316.	4.2	56
11	Rolling-based manipulation for multiple objects. IEEE Transactions on Automation Science and Engineering, 2000, 16, 457-468.	2.3	53
12	Development of a pneumatic artificial muscle driven by low pressure and its application to the unplugged powered suit. Advanced Robotics, 2017, 31, 1135-1143.	1.8	51
13	Pattern classification of time-series EMG signals using neural networks. International Journal of Adaptive Control and Signal Processing, 2000, 14, 829-848.	4.1	50
14	Noninvasive Biological Sensor System for Detection of Drunk Driving. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 19-25.	3.2	50
15	Neural network learning of robot arm impedance in operational space. IEEE Transactions on Systems, Man, and Cybernetics, 1996, 26, 290-298.	5.0	47
16	Analysis of mechanical impedance in human arm movements using a virtual tennis system. Biological Cybernetics, 2004, 91, 295-305.	1.3	46
17	Human hand impedance characteristics during maintained posture. Biological Cybernetics, 1995, 72, 475-485.	1.3	46
18	Measurement and Evaluation of Finger Tapping Movements Using Log-linearized Gaussian Mixture Networks. Sensors, 2009, 9, 2187-2201.	3.8	41

#	Article	IF	Citations
19	Brain activation during manipulation of the myoelectric prosthetic hand: a functional magnetic resonance imaging study. NeuroImage, 2004, 21, 1604-1611.	4.2	40
20	A model of motor control of the nematode C. elegans with neuronal circuits. Artificial Intelligence in Medicine, 2005, 35, 75-86.	6.5	39
21	Analysis of Current Density and Specific Absorption Rate in Biological Tissue Surrounding Transcutaneous Transformer for an Artificial Heart. IEEE Transactions on Biomedical Engineering, 2008, 55, 205-213.	4.2	37
22	Soft Wearable Augmented Walking Suit With Pneumatic Gel Muscles and Stance Phase Detection System to Assist Gait. IEEE Robotics and Automation Letters, 2018, 3, 4257-4264.	5.1	37
23	EMG-Based Motion Discrimination Using a Novel Recurrent Neural Network. Journal of Intelligent Information Systems, 2003, 21, 113-126.	3.9	36
24	ForceHand Glove: A Wearable Force-Feedback Glove With Pneumatic Artificial Muscles (PAMs). IEEE Robotics and Automation Letters, 2018, 3, 2416-2423.	5.1	36
25	Markerless Measurement and Evaluation of General Movements in Infants. Scientific Reports, 2020, 10, 1422.	3.3	35
26	Discrimination of Forearm Motions from EMG Signals by Error Back Propagation Typed Neural Network Using Entropy. Transactions of the Society of Instrument and Control Engineers, 1993, 29, 1213-1220.	0.2	34
27	Noncontact impedance control for redundant manipulators. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 184-193.	2.9	34
28	Lesions in the right Rolandic operculum are associated with self-rating affective and apathetic depressive symptoms for post-stroke patients. Scientific Reports, 2020, 10, 20264.	3.3	33
29	Control of an Externally Powered Prosthetic Forearm Using Raw-EMG Signals. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 1124-1131.	0.2	32
30	Energy Transmission Transformer for a Wireless Capsule Endoscope: Analysis of Specific Absorption Rate and Current Density in Biological Tissue. IEEE Transactions on Biomedical Engineering, 2008, 55, 1864-1871.	4.2	31
31	Measurement and evaluation of finger tapping movements using magnetic sensors. , 2008, 2008, 5628-31.		30
32	On-line learning of robot arm impedance using neural networks. Robotics and Autonomous Systems, 2005, 52, 257-271.	5.1	29
33	An Optimum Design of Robotic Hand for Handling a Visco-elastic Object Based on Maxwell Model. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	29
34	Quantifying Parkinson's disease finger-tapping severity by extracting and synthesizing finger motion properties. Medical and Biological Engineering and Computing, 2016, 54, 953-965.	2.8	28
35	Bio-mimetic impedance control of robotic manipulator for dynamic contact tasks. Robotics and Autonomous Systems, 2008, 56, 306-316.	5.1	27
36	The Cybernetic Rehabilitation Aid: Preliminary Results for Wrist and Elbow Motions in Healthy Subjects. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 697-707.	4.9	27

#	Article	IF	Citations
37	An EMG controlled prosthetic forearm in three degrees of freedom using ultrasonic motors. , 1992, , .		26
38	Scale-dependent grasp. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 806-816.	2.9	26
39	A Recurrent Probabilistic Neural Network with Dimensionality Reduction Based on Time-series Discriminant Component Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3021-3033.	11.3	25
40	A Dynamic Body Model of the Nematode<i>C. elegans</i>with Neural Oscillators. Journal of Robotics and Mechatronics, 2005, 17, 318-326.	1.0	24
41	Estimation of Human Hand Impedance During Maintenance of Posture. Transactions of the Society of Instrument and Control Engineers, 1994, 30, 319-328.	0.2	24
42	Multi-point impedance control for redundant manipulators. IEEE Transactions on Systems, Man, and Cybernetics, 1996, 26, 707-718.	5.0	23
43	An EMG Controlled Pointing Device Using a Neural Network. Transactions of the Society of Instrument and Control Engineers, 2001, 37, 425-431.	0.2	23
44	Motion Planning for Manipulators Using Artificial Potential Field Approach that can Adjust Convergence Time of Generated Arm Trajectory.. Journal of the Robotics Society of Japan, 1995, 13, 285-290.	0.1	21
45	Surgical Grasping Forceps With Enhanced Sensorimotor Capability via the Stochastic Resonance Effect. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2624-2634.	5.8	20
46	Online Learning of Virtual Impedance Parameters in Non-Contact Impedance Control Using Neural Networks. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2112-2118.	5.0	19
47	Functional interactions between the cerebellum and the premotor cortex for error correction during the slow rate force production task: an fMRI study. Experimental Brain Research, 2009, 193, 143-150.	1.5	19
48	Vehicle Active Steering Control System Based on Human Mechanical Impedance Properties of the Arms. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1758-1769.	8.0	19
49	Endothelial Function Assessed by Automatic Measurement of Enclosed Zone Flow–Mediated Vasodilation Using an Oscillometric Method Is an Independent Predictor of Cardiovascular Events. Journal of the American Heart Association, 2016, 5, .	3.7	19
50	A limb–function discrimination method using EMG signals for the control of multifunctional powered prostheses. Systems and Computers in Japan, 1987, 18, 42-53.	0.2	18
51	Virtual light touch contact: A novel concept for mitigation of body sway. , 2013, , .		18
52	A Variance Distribution Model of Surface EMG Signals Based on Inverse Gamma Distribution. IEEE Transactions on Biomedical Engineering, 2017, 64, 2672-2681.	4.2	18
53	A Quasi-Optimal Channel Selection Method for Bioelectric Signal Classification Using a Partial Kullback–Leibler Information Measure. IEEE Transactions on Biomedical Engineering, 2013, 60, 853-861.	4.2	17
54	A novel noninvasive and simple method for assessment of endothelial function: Enclosed zone flow-mediated vasodilation (ezFMD) using an oscillation amplitude measurement. Atherosclerosis, 2013, 229, 324-330.	0.8	17

#	Article	IF	Citations
55	Quantitative Evaluation of Pain during Electrocutaneous Stimulation using a Log-Linearized Peripheral Arterial Viscoelastic Model. Scientific Reports, 2018, 8, 3091.	3.3	17
56	A Mobile Cough Strength Evaluation Device Using Cough Sounds. Sensors, 2018, 18, 3810.	3.8	17
57	Human Arm Impedance in Multi-Joint Movements. Advances in Psychology, 1997, 119, 357-381.	0.1	16
58	Classification of combined motions in human joints through learning of individual motions based on muscle synergy theory. , 2010, , .		16
59	Predicting ischemic stroke after carotid artery stenting based on proximal calcification and the jellyfish sign. Journal of Neurosurgery, 2018, 128, 1280-1288.	1.6	16
60	A virtual myoelectric prosthesis training system capable of providing instructions on hand operations. International Journal of Advanced Robotic Systems, 2017, 14, 172988141772845.	2.1	15
61	Non-Gaussianity Detection of EEG Signals Based on a Multivariate Scale Mixture Model for Diagnosis of Epileptic Seizures. IEEE Transactions on Biomedical Engineering, 2021, 68, 515-525.	4.2	15
62	Excitability Changes of Motor Evoked Potentials Dependent on Muscle Properties and Contraction Modes. Motor Control, 2003, 7, 329-348.	0.6	14
63	A SPEECH SYNTHESIZER USING FACIAL EMG SIGNALS. International Journal of Computational Intelligence and Applications, 2008, 07, 1-15.	0.8	14
64	Analysis of Operational Comfort in Manual Tasks Using Human Force Manipulability Measure. IEEE Transactions on Haptics, 2015, 8, 8-19.	2.7	14
65	Estimation of Cough Peak Flow Using Cough Sounds. Sensors, 2018, 18, 2381.	3.8	14
66	Monitoring of Vascular Conditions Using Plethysmogram. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 1236-1242.	0.2	14
67	Feedback Cotrol of Mobile Robots with Nonholonomic Constraints Using Time Base Generator.. Journal of the Robotics Society of Japan, 1994, 12, 1072-1078.	0.1	13
68	Vision-based active sensor using a flexible beam. IEEE/ASME Transactions on Mechatronics, 2001, 6, 7-16.	5.8	13
69	Bio-mimetic trajectory generation based on human arm movements with a nonholonomic constraint. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2002, 32, 773-779.	2.9	13
70	Motor strategies and excitability changes of human hand motor area are dependent on different voluntary drives. European Journal of Neuroscience, 2006, 23, 3399-3406.	2.6	13
71	Analysis and Modeling of Human Impedance Properties for Designing a Human-Machine Control System. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	13
72	Spontaneous movements in the newborns: a tool of quantitative video analysis of preterm babies. Computer Methods and Programs in Biomedicine, 2021, 199, 105838.	4.7	13

#	ARTICLE	IF	CITATIONS
73	An artificial EMG generation model based on signal-dependent noise and related application to motion classification. PLoS ONE, 2017, 12, e0180112.	2.5	13
74	A Virtual Sports System for Skill Training. Journal of Robotics and Mechatronics, 2001, 13, 168-175.	1.0	13
75	A Wearable Pointing Device Using EMG Signals. Journal of Robotics and Mechatronics, 2005, 17, 173-180.	1.0	13
76	A Human Supporting Manipulator Based on Manual Control Using EMG Signals.. Journal of the Robotics Society of Japan, 2000, 18, 387-394.	0.1	13
77	Functional demanded excitability changes of human hand motor area. Experimental Brain Research, 2006, 170, 141-148.	1.5	12
78	A Subjective Force Perception Model of Humans and Its Application to a Steering Operation System of a Vehicle. , 2013, , .		12
79	A Novel Blood Viscosity Estimation Method Based on Pressure–Flow Characteristics of an Oxygenator During Cardiopulmonary Bypass. Artificial Organs, 2017, 41, 262-266.	1.9	12
80	Novel Human Interface for Game Control Using Voluntarily Generated Biological Signals. Journal of Robotics and Mechatronics, 2006, 18, 626-633.	1.0	12
81	An Analysis of Human Hand Impedance Characteristics During Isometric Muscle Contractions. Transactions of the Society of Instrument and Control Engineers, 1996, 32, 271-280.	0.2	12
82	Distributed trajectory generation for cooperative multi-arm robots via virtual force interactions. IEEE Transactions on Systems, Man, and Cybernetics, 1997, 27, 862-867.	5.0	11
83	Effects of Ionizing Radiation on Locomotory Behavior and Mechanosensation in Caenorhabditis elegans. Journal of Radiation Research, 2009, 50, 119-125.	1.6	11
84	An optimum design of robotic food handling by using Burger model. Intelligent Service Robotics, 2009, 2, 53-60.	2.6	11
85	Biomimetic Impedance Control of an EMG-Based Robotic Hand. , 0, , .		11
86	Estimation method of finger tapping dynamics using simple magnetic detection system. Review of Scientific Instruments, 2010, 81, 054303.	1.3	11
87	A Comparison Between the Human Sense of Smell and Neural Activity in the Olfactory Bulb of Rats. Chemical Senses, 2014, 39, 91-105.	2.0	11
88	Adaptive control and identification using one neural network for a class of plants with uncertainties. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1998, 28, 496-505.	2.9	10
89	Active force closure for multiple objects. Journal of Field Robotics, 2002, 19, 133-141.	0.7	10
90	Analysis of Specific Absorption Rate and Current Density in an Energy Transmission System for a Wireless Capsule Endoscope. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6052-5.	0.5	10

#	ARTICLE	IF	CITATIONS
91	A CPG synergy model for evaluation of human finger tapping movements. , 2011, 2011, 4443-8.		10
92	Stiffness Display by Muscle Contraction Via Electric Muscle Stimulation. IEEE Robotics and Automation Letters, 2016, 1, 1014-1019.	5.1	10
93	Peripheral arterial stiffness during electrocutaneous stimulation is positively correlated with pain-related brain activity and subjective pain intensity: an fMRI study. Scientific Reports, 2021, 11, 4425.	3.3	10
94	Parallel and distributed trajectory generation of redundant manipulators through cooperation and competition among subsystems. IEEE Transactions on Systems, Man, and Cybernetics, 1997, 27, 498-509.	5.0	9
95	Further Insights into Post-exercise Effects on H-Reflexes and Motor Evoked Potentials of the Flexor Carpi Radialis Muscles. Motor Control, 2003, 7, 82-99.	0.6	9
96	FPGA Implementation of a Probabilistic Neural Network Using Delta-Sigma Modulation for Pattern Discrimination of EMG Signals. , 2007, , .		9
97	Estimation of human finger tapping forces based on a fingerpad-stiffness model. , 2009, 2009, 2663-7.		9
98	Mechanical and perceptual analyses of human foot movements in pedal operation. , 2009, , .		9
99	EMG-based control for a feeding support robot using a probabilistic neural network. , 2012, , .		9
100	Novel non-invasive method of measurement of endothelial function: enclosed-zone flow-mediated dilatation (ezFMD). Medical and Biological Engineering and Computing, 2012, 50, 1239-1247.	2.8	9
101	Electromyographic prosthetic hand using grasping-force-magnification mechanism with five independently driven fingers. Advanced Robotics, 2015, 29, 1586-1598.	1.8	9
102	Acute effect of oral sensation of sweetness on celiac artery blood flow and gastric myoelectrical activity in humans. Autonomic Neuroscience: Basic and Clinical, 2016, 197, 41-45.	2.8	9
103	A computational model of internal representations of chemical gradients in environments for chemotaxis of Caenorhabditis elegans. Scientific Reports, 2018, 8, 17190.	3.3	9
104	Recurrent probabilistic neural network-based short-term prediction for acute hypotension and ventricular fibrillation. Scientific Reports, 2020, 10, 11970.	3.3	9
105	The right hemisphere is important for driving-related cognitive function after stroke. Neurosurgical Review, 2021, 44, 977-985.	2.4	9
106	Development of A Five-finger Prosthetic Hand Using Ultrasonic Motors Controlled by Two EMG Signals. Journal of Robotics and Mechatronics, 2002, 14, 565-572.	1.0	9
107	Non-Contact Impedance Control for Manipulators.. Journal of the Robotics Society of Japan, 1997, 15, 616-623.	0.1	9
108	Analysis of Human Perception Ability for Robot Impedance.. Journal of the Robotics Society of Japan, 2002, 20, 180-186.	0.1	9

#	Article	IF	Citations
109	Pattern Classification of Combined Motions Based on Muscle Synergy Theory. Journal of the Robotics Society of Japan, 2010, 28, 606-613.	0.1	9
110	Impedance Regulations in Musculo-Motor Control System and the Manipulation Ability of the End-Point. Transactions of the Society of Instrument and Control Engineers, 1988, 24, 385-392.	0.2	9
111	An EMG Controlled Prosthetic Forearm with Three Degrees of Freedom Using Ultrasonic Motors. Transactions of the Society of Instrument and Control Engineers, 1991, 27, 1281-1289.	0.2	9
112	Impedance Training. Transactions of the Society of Instrument and Control Engineers, 1999, 35, 1300-1306.	0.2	9
113	Predictors of Stroke Outcome Extracted from Multivariate Linear Discriminant Analysis or Neural Network Analysis. Journal of Atherosclerosis and Thrombosis, 2022, 29, 99-110.	2.0	9
114	Internal forces and stability in multi-finger grasps. Control Engineering Practice, 1999, 7, 413-422.	5.5	8
115	Manipulability Analysis with Human Joint-Torque Characteristics of the Lower Extremity. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 612-618.	0.2	8
116	Unconstrained and noninvasive measurement of bioelectric signals from small fish. Artificial Life and Robotics, 2009, 14, 342-347.	1.2	8
117	Investigation of the subjective force perception based on the estimation of the muscle activities during a steering operation. , 2013, , .		8
118	A Scale Mixture-Based Stochastic Model of Surface EMG Signals With Variable Variances. IEEE Transactions on Biomedical Engineering, 2019, 66, 2780-2788.	4.2	8
119	Forward and backward locomotion patterns in C. elegans generated by a connectome-based model simulation. Scientific Reports, 2021, 11, 13737.	3.3	8
120	EMG pattern recognition via Bayesian inference with scale mixture-based stochastic generative models. Expert Systems With Applications, 2021, 185, 115644.	7.6	8
121	Impedance Control for Redundant Manipulators: An Approach to Joint Impedance Regulation Utilizing Kinematic Redundancy.. Journal of the Robotics Society of Japan, 1994, 12, 609-615.	0.1	8
122	An Adaptive Training Method for Human-robot Systems Using Neural Networks.. Journal of the Robotics Society of Japan, 2000, 18, 683-689.	0.1	8
123	An Equivalent Impedance Characteristics Analysis System for Human-machine Systems. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 1083-1091.	0.2	8
124	Modulations of input-output properties of corticospinal tract neurons by repetitive dynamic index finger abductions. Experimental Brain Research, 2005, 161, 255-264.	1.5	7
125	Manipulability Analysis of Kicking Motion in Soccer Based on Human Physical Properties. , 2006, , .		7
126	Measuring muscle movements for human interfaces using a flexible piezoelectric thin film sensor. , 2008, 2008, 112-6.		7

#	Article	IF	Citations
127	An MMG-based human-assisting manipulator using acceleration sensors. , 2009, , .		7
128	An Artificial Neural Network Approach for Glomerular Activity Pattern Prediction Using the Graph Kernel Method and the Gaussian Mixture Functions. Chemical Senses, 2011, 36, 413-424.	2.0	7
129	Continuous Blood Viscosity Monitoring System for Cardiopulmonary Bypass Applications. IEEE Transactions on Biomedical Engineering, 2017, 64, 1503-1512.	4.2	7
130	Real-Time Cameraless Measurement System Based on Bioelectrical Ventilatory Signals to Evaluate Fear and Anxiety. Zebrafish, 2018, 15, 133-144.	1.1	7
131	A soft exoskeleton suit to reduce muscle fatigue with pneumatic artificial muscles. , 2018, , .		7
132	Relationships between motor and cognitive functions and subsequent post-stroke mood disorders revealed by machine learning analysis. Scientific Reports, 2020, 10, 19571.	3.3	7
133	Clinical Significance of Cough Peak Flow and Its Non-Contact Measurement via Cough Sounds: A Narrative Review. Applied Sciences (Switzerland), 2020, 10, 2782.	2.5	7
134	Discrimination of Vascular Conditions Using a Probabilistic Neural Network. Journal of Robotics and Mechatronics, 2004, 16, 138-145.	1.0	7
135	Analysis of Human Hand Impedance Properties during the Steering Operation. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 1353-1359.	0.2	7
136	Directional Properties of Human Hand Force Perception in the Maintenance of Arm Posture. Lecture Notes in Computer Science, 2007, , 933-942.	1.3	7
137	Pen-point Trajectory Analysis During Trail Making Test Based on a Time Base Generator Model. , 2021, 2021, 6215-6219.		7
138	Human–Machine Interfaces Based on Bioelectric Signals: A Narrative Review with a Novel System Proposal. IEEJ Transactions on Electrical and Electronic Engineering, 2022, 17, 1536-1544.	1.4	7
139	Bio-mimetic Control of Mobile Robots Based on a Model of Bacterial Chemotaxis.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2002, 68, 2687-2694.	0.2	6
140	A virtual training sports system for measuring human hand impedance. , 0, , .		6
141	Bio-mimetic trajectory generation using a neural time-base generator. Journal of Field Robotics, 2005, 22, 625-637.	0.7	6
142	An EMG-controlled omnidirectional pointing device. Systems and Computers in Japan, 2006, 37, 55-63.	0.2	6
143	Modeling and evaluation of human motor skills in a virtual tennis task. , 2008, 2008, 4190-3.		6
144	Biomimetic Control Based on a Model of Chemotaxis in <i>Escherichia coli</i>. Artificial Life, 2010, 16, 155-177.	1.3	6

#	Article	IF	Citations
145	Active-steering control system based on human hand impedance properties. , 2010, , .		6
146	Theoretical and Evolutionary Parameter Tuning of Neural Oscillators with a Double-Chain Structure for Generating Rhythmic Signals. Neural Computation, 2012, 24, 635-675.	2.2	6
147	A training system for the MyoBock hand in a virtual reality environment. , 2013, , .		6
148	Human muscular mobility ellipsoid: End-point acceleration manipulability measure in fast motion of human upper arm. Journal of Biomechanical Science and Engineering, 2014, 9, 14-00207-14-00207.	0.3	6
149	A neural network based infant monitoring system to facilitate diagnosis of epileptic seizures. , 2015, 2015, 5614-7.		6
150	Hydrodynamic characteristics of a membrane oxygenator: modeling of pressure-flow characteristics and their influence on apparent viscosity. Perfusion (United Kingdom), 2015, 30, 478-483.	1.0	6
151	A new arterial mechanical property indicator reflecting differences in invasive stimulus intensity induced by alteration of remifentanil concentration during laryngoscopy. Minerva Anestesiologica, 2018, 84, 311-318.	1.0	6
152	Unconstrained Vital Sign Monitoring System Using an Aortic Pulse Wave Sensor. Scientific Reports, 2019, 9, 17475.	3.3	6
153	Is Human Brain Activity During Driving Operations Modulated by the Viscoelastic Characteristics of a Steering Wheel?: An fMRI Study. IEEE Access, 2020, 8, 215073-215090.	4.2	6
154	Neural network-based modeling of the number of microbubbles generated with four circulation factors in cardiopulmonary bypass. Scientific Reports, 2021, 11, 549.	3.3	6
155	Prediction of blood pressure change during surgical incision under opioid analgesia using sympathetic response evoking threshold. Scientific Reports, 2021, 11, 9558.	3.3	6
156	Wearable Pseudo-Haptic Interaction by Using Electrical Muscle Stimulation. Lecture Notes in Electrical Engineering, 2015, , 135-140.	0.4	6
157	LMI-Based Neurocontroller for State-Feedback Guaranteed Cost Control of Discrete-Time Uncertain System. IEICE Transactions on Information and Systems, 2005, E88-D, 1903-1911.	0.7	6
158	Development of Myoelectric Robotic/Prosthetic Hands with Cybernetic Control at the Biological Systems Engineering Laboratory, Hiroshima University. Journal of Robotics and Mechatronics, 2019, 31, 27-34.	1.0	6
159	Targeted Central Nervous System Irradiation of Caenorhabditis elegans Induces a Limited Effect on Motility. Biology, 2020, 9, 289.	2.8	6
160	Position/Force control strategies in human movements during crank rotation tasks.. Ningen Kogaku = the Japanese Journal of Ergonomics, 1992, 28, 209-218.	0.1	6
161	A Log-linearized Peripheral Arterial Viscoelastic Index and Its Application to Endoscopic Thoracic Sympathectomy. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 731-739.	0.2	6
162	Iterative Learning of Impedance Parameters for Manipulator Control Using Neural Networks. Transactions of the Society of Instrument and Control Engineers, 1992, 28, 1461-1468.	0.2	6

#	Article	IF	Citations
163	Tracking Control Properties of Human-robot Systems.. Journal of the Robotics Society of Japan, 2000, 18, 285-291.	0.1	6
164	An MMG-based Control Method of Prosthetic Manipulators Using Acceleration Sensors. Journal of the Robotics Society of Japan, 2007, 25, 874-880.	0.1	6
165	Multi-Point Compliance Control for Redundant Manipulators. Transactions of the Society of Instrument and Control Engineers, 1990, 26, 1406-1413.	0.2	6
166	The Relations Between the Excitability of the Stretch Reflex System and Changes in the Wrist Joint Impedance during Isometric Muscle Contraction in Human. Transactions of the Society of Instrument and Control Engineers, 1998, 34, 1698-1705.	0.2	6
167	Excitability changes of motor evoked potentials dependent on muscle properties and contraction modes. Motor Control, 2003, 7, 328-45.	0.6	6
168	Pattern discrimination method with a boosting approach using hierarchical neural trees. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2008, 222, 701-710.	1.0	5
169	Noninvasive biological sensor system for detection of drunk driving. , 2009, , .		5
170	A novel online method to monitor autonomic nervous activity based on arterial wall impedance and heart rate variability. Medical and Biological Engineering and Computing, 2010, 48, 351-359.	2.8	5
171	Reliability of Finger Tapping Test Used in Diagnosis of Movement Disorders. , 2011, , .		5
172	Severity estimation of finger-tapping caused by Parkinson's disease by using linear discriminant regression analysis. , 2012, 2012, 4315-8.		5
173	A Study on Design Factors of Gas Pedal Operation. SAE International Journal of Passenger Cars - Mechanical Systems, 2012, 5, 30-35.	0.4	5
174	Improvement of tactile sensitivity by stochastic resonance effect - Applications to surgical grasping forceps. , 2013, 2013, 4601-4.		5
175	Alteration of Arterial Mechanical Impedance Greater than that of Photoplethysmogram and Laser Doppler Flowmetry during Endoscopic Thoracic Sympathectomy. Journal of Medical and Biological Engineering, 2017, 37, 820-825.	1.8	5
176	Reinforced Suit Using Low Pressure Driven Artificial Muscles For Baseball Bat Swing. , 2018, , .		5
177	Unconstrained Monitoring of Biological Signals Using an Aortic Pulse Wave Sensor. , 2018, 2018, 4327-4330.		5
178	Spatiotemporal Parameterization of Human Reaching Movements Based on Time Base Generator. IEEE Access, 2020, 8, 104944-104955.	4.2	5
179	Measurement of emotional states of zebrafish through integrated analysis of motion and respiration using bioelectric signals. Scientific Reports, 2021, 11, 187.	3.3	5
180	A New Approach to Evaluation of Reactive Hyperemia Based on Strain-gauge Plethysmography Measurements and Viscoelastic Indices. IFMBE Proceedings, 2009, , 2059-2063.	0.3	5

#	Article	IF	Citations
181	Pattern Classification of EMG Signals Using an Event-Driven Task Model.. Journal of the Robotics Society of Japan, 2002, 20, 771-777.	0.1	5
182	Joint Compliance Regulation for Manipulators Utilizing Redundant Degrees of Freedom. Transactions of the Society of Instrument and Control Engineers, 1990, 26, 557-563.	0.2	5
183	Toward System Integration of Mechanical Impedance Properties into Human-machine Systems. Journal of the Robotics Society of Japan, 2006, 24, 696-699.	0.1	5
184	Research on Upper Extremity Prosthesis based on Human Motion Analysis : Development of Internally Powered Functional-cosmetics Prosthetic Hand. Ika Kikaigaku, 2002, 72, 220-227.	0.0	5
185	Instantaneous Inverse Kinematic Solution for Redundant Manipulators Based on Virtual Arms and Its Application to Winding Control. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 1995, 38, 87-93.	0.1	4
186	A sensorless drive system for brushless DC motors using a digital phase-locked loop. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2003, 142, 57-66.	0.4	4
187	Equivalent Inertia of Human-Machine Systems under Constraint Environments. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 156-163.	0.2	4
188	EEG discrimination using wavelet packet transform and a reduced-dimensional recurrent neural network. , 2010, , .		4
189	Modeling of the pharyngeal muscle in Caenorhabditis elegans based on FitzHugh-Nagumo equations. Artificial Life and Robotics, 2012, 17, 173-179.	1.2	4
190	Monitoring of peripheral vascular condition using a log-linearized arterial viscoelastic index during endoscopic thoracic sympathectomy. , 2013, 2013, 2587-90.		4
191	Haptic rendering of a needle insertion by enhancing the real force response of a base object. , 2014, , .		4
192	A virtual training system of a hydraulic excavator using a remote controlled excavator with augmented reality. , 2017, , .		4
193	Prediction of Perceived Steering Wheel Operation Force by Muscle Activity. IEEE Transactions on Haptics, 2018, 11, 590-598.	2.7	4
194	A New Approach for Training on EMG-based Prosthetic Hand Control. , 2020, , .		4
195	Cardiorespiratory synchronisation and systolic blood pressure correlation of peripheral arterial stiffness during endoscopic thoracic sympathectomy. Scientific Reports, 2021, 11, 5966.	3.3	4
196	FORCE-BASED AUTOMATIC CLASSIFICATION OF BASIC MANIPULATIONS WITH GRASPING FORCEPS. International Journal of Life Science and Medical Research, 2013, 3, 76-82.	0.2	4
197	A Novel Variable Selection Method Based on a Partial KL Information Measure and Its Application to Channel Selection for Bioelectric Signal Classification. Transactions of the Society of Instrument and Control Engineers, 2009, 45, 724-730.	0.2	4
198	Modeling of the Membrane Potential Change of Paramecium for Mechanical Stimuli. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 351-357.	0.2	4

#	Article	IF	Citations
199	A Layout Design Method of Human-vehicle Systems Based on Equivalent Inertia Indices. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 400-407.	0.2	4
200	Virtual Driving Simulator for Measuring Dynamic Properties of Human Arm Movements. Journal of Robotics and Mechatronics, 2006, 18, 177-185.	1.0	4
201	Guaranteed cost PI control for uncertain discrete-time systems with additive gain. , 2009, , .		4
202	Non-invasive Monitoring of Arterial Wall Impedance. , 2007, , 67-78.		4
203	Arterial mechanical impedance is a sensitive stress response monitor during general anesthesia. Hiroshima Journal of Medical Sciences, 2009, 58, 75-82.	0.1	4
204	Experimental approach on enveloping grasp for column objects. Lecture Notes in Control and Information Sciences, 1998, , 34-46.	1.0	3
205	Unsupervised Learning for Hierarchical Clustering Using Statistical Information. Lecture Notes in Computer Science, 2004, , 834-839.	1.3	3
206	A neural network model of the olfactory system of mice: simulated the tendency of attention behavior. Artificial Life and Robotics, 2008, 13, 280-285.	1.2	3
207	A Subjective Force Perception Model of Humans and Its Application to a Steering Operation System of a Vehicle. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012, 78, 3705-3714.	0.2	3
208	Bioassay System Based on Behavioral Analysis and Bioelectric Ventilatory Signals of a Small Fish. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 3265-3275.	4.7	3
209	Bioelectric signal classification using a recurrent probabilistic neural network with time-series discriminant component analysis. , 2013, 2013, 5394-7.		3
210	Operation assistance for the Bio-Remote environmental control system using a Bayesian Network-based prediction model. , 2015, 2015, 1160-3.		3
211	A neural network model of Caenorhabditis elegans and simulation of chemotaxis-related information processing in the neural network. , 2015, , .		3
212	A blood viscosity estimation method based on pressure-flow characteristics of an oxygenator during cardiopulmonary bypass and its clinical application. , 2015, 2015, 5525-8.		3
213	Variance distribution analysis of surface EMG signals based on marginal maximum likelihood estimation. , 2017, 2017, 2514-2517.		3
214	An EMG Pattern Classification Method Based on a Mixture of Variance Distribution Models. , 2018, 2018, 5216-5219.		3
215	Development of fMRI-Compatible Steering Reaction Force Generation Unit. IEEE/ASME Transactions on Mechatronics, 2019, 24, 549-560.	5.8	3
216	Estimation of Arterial Viscosity Based on an Oscillometric Method and Its Application in Evaluating the Vascular Endothelial Function. Scientific Reports, 2019, 9, 2609.	3.3	3

#	Article	IF	Citations
217	Quantitative Evaluation of Human Finger Tapping Movements Through Magnetic Measurements. IEEE/ASME Transactions on Mechatronics, 2019, 24, 186-196.	5.8	3
218	Video-based evaluation of infant crawling toward quantitative assessment of motor development. Scientific Reports, 2020, 10, 11266.	3.3	3
219	Longitudinal assessment of U-shaped and inverted U-shaped developmental changes in the spontaneous movements of infants via markerless video analysis. Scientific Reports, 2020, 10, 16827.	3.3	3
220	Steady-State Model of Pressure-Flow Characteristics Modulated by Occluders in Cardiopulmonary Bypass Systems. IEEE Access, 2020, 8, 220962-220972.	4.2	3
221	Human Impedance Perception through Sensory-Motor Integration. Journal of Robotics and Mechatronics, 2003, 15, 192-199.	1.0	3
222	Quantitative Evaluation of Pain with Mechanical Nociceptive Stimuli by the Change of Arterial Wall Viscoelasticity. Iryou Kikigaku (the Japanese Journal of Medical Instrumentation), 2010, 80, 196-204.	0.0	3
223	Biomechanical analysis of human arm posture during crank rotation tasks.. Ningen Kogaku = the Japanese Journal of Ergonomics, 1992, 28, 149-157.	0.1	3
224	Estimation of Arterial Viscoelastic Properties during the Flow-mediated Dilation Test. Transactions of the Society of Instrument and Control Engineers, 2013, 49, 1029-1036.	0.2	3
225	Multi-Point Compliance Control for Manipulators Constrained by Task Objects. Transactions of the Society of Instrument and Control Engineers, 1991, 27, 85-92.	0.2	3
226	A New Calibration Method of Magnetic Sensors for Measurement of Human Finger Tapping Movements. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 821-828.	0.2	3
227	Sensorimotor Characteristics in Human Arm Movements during a Virtual Curling Task for Motor Rehabilitation of Upper Limb. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 1288-1294.	0.2	3
228	Hand Force Formation during Constrained Arm Movements and Virtual Trajectory Hypothesis. Transactions of the Society of Instrument and Control Engineers, 1992, 28, 366-373.	0.2	3
229	Multi-Point Impedance Control for Redundant Manipulators. Transactions of the Society of Instrument and Control Engineers, 1994, 30, 1418-1426.	0.2	3
230	Model-Based Evaluation of Reactive Hyperemia Using Strain-Gauge Plethysmography and Log-Linearized Viscoelastic Indices. Journal of Biomaterials and Tissue Engineering, 2015, 5, 334-341.	0.1	3
231	A Motion-based System to Evaluate Infant Movements Using Real-time Video Analysis. IFMBE Proceedings, 2009, , 2043-2047.	0.3	3
232	Toward a Robust Estimation of Respiratory Rate Using Cardiovascular Biomarkers: Robustness Analysis Under Pain Stimulation. IEEE Sensors Journal, 2022, 22, 9904-9913.	4.7	3
233	Projection of Damaged Visual and Language Regions on Low Trail Making Test Part-B Performance in Stroke Patients. Frontiers in Neurology, 0, 13, .	2.4	3
234	A linear algorithm for motion of rigid objects using features of parallel lines and optical flow. Systems and Computers in Japan, 1991, 22, 70-79.	0.2	2

#	Article	IF	Citations
235	Human Hand Movements in Skilled Motor Performance of a Virtual Curling Task. , 2007, , .		2
236	A neural network model of the olfactory system of mice: computer simulation of the attention behavior of mice for some components in an odor. Artificial Life and Robotics, 2008, 12, 75-80.	1.2	2
237	The Cybernetic Rehabilitation Aid: A novel concept for direct rehabilitation. , 2009, , .		2
238	A class selection method based on a partial Kullback-Leibler information measure for biological signal classification. , 2010, , .		2
239	A novel dual-arm motion discrimination method using recurrent probability neural networks for automatic gesture recognition. , 2011, , .		2
240	Multi-channel surface EMG classification based on a quasi-optimal selection of motions and channels. , 2012, , .		2
241	Novel method for mitigation of body sway and preliminary results for tandem standing. , 2013, , .		2
242	Evaluation of Arterial Stiffness during the Flow-Mediated Dilation Test. , 2013, , .		2
243	Biomechanical and Psychophysical Evaluation of Operating Loads in Vehicular Driving. , 2013, , .		2
244	Development of a Mechanical Impedance Model-Based Computer Simulator for Evaluation of an Active Headrest Mechanism in Rear-End Impact. Journal of Mechanical Systems for Transportation and Logistics, 2013, 6, 73-88.	0.2	2
245	Unloading muscle activation enhances force perception. , 2014, , .		2
246	Design of pedal characteristics making use of human leg mechanical properties. Transactions of the JSME (in Japanese), 2014, 80, BMS0019-BMS0019.	0.2	2
247	Design of gearshift lever characteristics based on human arm mechanical properties. Transactions of the JSME (in Japanese), 2014, 80, BMS0247-BMS0247.	0.2	2
248	A non-Gaussian approach for biosignal classification based on the Johnson SU translation system. , 2015, , .		2
249	Computer simulation of chemotaxis in caenorhabditis elegans in consideration of whole-body movements. , 2015, , .		2
250	Development of an earlobe crease identification system to support diagnosis of arteriosclerosis. , 2016, 2016, 2374-2377.		2
251	Blood viscosity monitoring during cardiopulmonary bypass based on pressure-flow characteristics of a Newtonian fluid. , 2016, 2016, 2331-2334.		2
252	Evaluation of unplugged powered suit with pneumatic gel muscles. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
253	Analysis of movement of carotid artery using template matching. Neurosonology, 2017, 30, 139-143.	0.0	2
254	Selection of Motor Imageries for Brain-Computer Interfaces Based on Partial Kullback-Leibler Information Measure. , 2018, , .		2
255	Assessment of Lower-limb Vascular Endothelial Function Based on Enclosed Zone Flow-mediated Dilation. Scientific Reports, 2018, 8, 9263.	3.3	2
256	Muscle Fatigue Analysis by Using a Scale Mixture-based Stochastic Model of Surface EMG Signals. , 2019, 2019, 1948-1951.		2
257	A Training System for Brain-Computer Interfaces Based on Motor Imagery Selection. , 2020, , .		2
258	A Novel Pattern Classification Method for Multivariate EMG Signals Using Neural Network. Lecture Notes in Computer Science, 2005, , 165-174.	1.3	2
259	Unplugged Powered Suit with Pneumatic Gel Muscles. Lecture Notes in Electrical Engineering, 2018, , 247-251.	0.4	2
260	Improvement of Tactile Sensitivity by Stochastic Resonance: Application to Vibrating Forceps. , 2012, , .		2
261	EMG-Based Control of a Multi-Joint Robot for Operating a Glovebox. Advances in Computational Intelligence and Robotics Book Series, 2015, , 36-52.	0.4	2
262	A Task Training System for EMG-based Prosthetic Hand Using VR Technology and Virtual Realization of the Box and Block Test. Journal of the Robotics Society of Japan, 2012, 30, 621-628.	0.1	2
263	Repeatability Evaluation of Finger Tapping Device with Magnetic Sensors. Transactions of the Society of Instrument and Control Engineers, 2011, 47, 272-281.	0.2	2
264	Impedance Regulation in Human Movements during a Rotation Task. Transactions of the Society of Instrument and Control Engineers, 1990, 26, 443-450.	0.2	2
265	Ability Enlargement of Ultrasonic Motor Utilizing Two-Parameters-PWM Control. Transactions of the Society of Instrument and Control Engineers, 1995, 31, 1152-1159.	0.2	2
266	Realtime Monitoring of Vascular Conditions Using a Probabilistic Neural Network. Lecture Notes in Computer Science, 2004, , 488-493.	1.3	2
267	A Universal Interface for Video Game Machines Using Biological Signals. Lecture Notes in Computer Science, 2005, , 88-98.	1.3	2
268	A Bioassay System Using Bioelectric Signals from Small Fish. Transactions of the Society of Instrument and Control Engineers, 2011, 47, 119-125.	0.2	2
269	Unconstrained and Noninvasive Measurement of Swimming Behavior of Small Fish Based on Ventilatory Signals. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 151-158.	0.2	2
270	A Novel Class Selection Method Based on a Partial Kullback-Leibler Information Measure and Its Application to Motion Classification Problem for EMG Signal Discrimination. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 580-588.	0.2	2

#	Article	IF	Citations
271	ON THE FORCE AND POSITION CONTROL OF HUMAN PROSTHESIS SYSTEMS. Biomechanisms, 1986, 8, 275-286.	0.1	2
272	Torque Control of a Flexible Beam Using Neuro-Based Adaptive Control. Transactions of the Society of Instrument and Control Engineers, 1997, 33, 109-117.	0.2	2
273	Electromyographic Interface Technology and Robotic Arm Prostheses. Journal of the Japan Society for Precision Engineering, 2017, 83, 1010-1013.	0.1	2
274	An Estimation Method for Environmental Friction Based on Body Dynamic Model of ligCaenorhabditis elegansl/ig. Journal of Robotics, Networking and Artificial Life, 2017, 4, 32.	0.4	2
275	Prediction of Affective Feeling of Tactile Texture Based on Measurement of Fingertip Deformation. , 2018, , .		2
276	VR Training System of Step Timing for Baseball Batter Using Force Stimulus. Lecture Notes in Electrical Engineering, 2019, , 321-326.	0.4	2
277	Myoelectric Teleoperation of a Dual-Arm Manipulator Using Neural Networks. , 0, , 154-176.		2
278	A Neural Network Based on the Johnson S U Translation System and Related Application to Electromyogram Classification. IEEE Access, 2021, 9, 154304-154317.	4.2	2
279	Automatic control of blood flow rate on the arterial-line side during cardiopulmonary bypass. , 2021, 2021, 5011-5014.		2
280	A Recurrent Probabilistic Neural Network for EMG Pattern Recognition. , 0, , 130-153.		2
281	Scale-Dependent Enveloping Grasps - Inspired by Human Grasping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 729-734.	0.4	1
282	Grasp and manipulation for multiple objects. Advanced Robotics, 1998, 13, 353-354.	1.8	1
283	Hierarchical control of end-point impedance and joint impedance for redundant manipulators. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 627-636.	2.9	1
284	ANALYSIS OF HUMAN PERCEPTION ABILITY FOR ROBOT IMPEDANCE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 18-23.	0.4	1
285	Neural-Based Decentralized Robust Control of Large-Scale Uncertain Nonlinear Systems with Guaranteed H<sub>&#x0221E;</sub> Performance. , 2006, , .		1
286	LMI-Based Additive Gain for Guaranteed Cost Control of Robotic Manipulator with Deadzone. Proceedings of the American Control Conference, 2007, , .	0.0	1
287	Evaluation of Autonomic Nervous Activity Based on Arterial Wall Impedance and Heart Rate Variability. , 2007, , .		1
288	A tapping interface for finger movement training using magnetic sensors. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	1

#	Article	IF	Citations
289	A Marker-less Monitoring System for Movement Analysis of Infants Using Video Images. Transactions of the Society of Instrument and Control Engineers, 2009, 45, 224-232.	0.2	1
290	Neuro-based olfactory model for artificial organoleptic tests. Artificial Life and Robotics, 2009, 14, 474-479.	1.2	1
291	Improvement of novel noninvasive measurement of endothelial function: ezFMD. , 2011, , .		1
292	A Novel Estimation Method of Human Finger Tapping Forces Based on a. Journal of the Society of Biomechanisms, 2011, 35, 37-44.	0.0	1
293	Development of a palpable carotid pulse pressure sensor using electromagnetic induction. , 2012, , .		1
294	A log-linearized arterial viscoelastic model for evaluation of the carotid artery. , 2013, 2013, 2591-4.		1
295	Development of a continuous sphygmomanometer using electromagnetic induction. , 2014, , .		1
296	A marker-less monitoring system for behavior analysis of infant using video image. Japan Journal of Human Growth and Development Research, 2014, 2014, 1-7.	0.1	1
297	A simple accurate chest-compression depth gauge using magnetic coils during cardiopulmonary resuscitation. Review of Scientific Instruments, 2015, 86, 124301.	1.3	1
298	Analysis of steering wheel operations based on human arm mechanical properties. Transactions of the JSME (in Japanese), 2015, 81, 15-00023-15-00023.	0.2	1
299	Human Interface Design Method Based on the Estimation of Muscle Effort by a Musculoskeletal Model. , 2015, , .		1
300	A Mathematical Model of the Olfactory Bulb for the Selective Adaptation Mechanism in the Rodent Olfactory System. PLoS ONE, 2016, 11, e0165230.	2.5	1
301	An Interactive Training System for Myoelectric Prostheses using Virtual Hand. Journal of the Robotics Society of Japan, 2016, 34, 404-410.	0.1	1
302	Unpowered Sensorimotor-Enhancing Suit Reduces Muscle Activation and Improves Force Perception. IEEE Transactions on Human-Machine Systems, 2017, 47, 1158-1163.	3.5	1
303	Towards Objective Olfactory Evaluation Based On Peripheral Arterial Stiffness And Heart Rate Variability Indices. , 2018, 2018, 5618-5623.		1
304	Detection of Echinocyte during Perfusion with Oxygenator Based on Continuous Blood Viscosity Monitoring. , 2018, 2018, 4448-4451.		1
305	Online Prediction of Normal Blood Viscosity During Cardiopulmonary Bypass Using Hematocrit- and Temperature-Dependent Model. IEEE Access, 2020, 8, 5611-5621.	4.2	1
306	An-EMG-controlled Mobile Robot Based on a Multi-layered Non-contact Impedance Model. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
307	Fingertip Force Estimation Based on the Deformation of the Fingertip. Lecture Notes in Electrical Engineering, 2015, , 201-205.	0.4	1
308	Supporting Effects on Muscles of a Motion Assistive Wear Depending on the Fixture Position. Journal of Robotics and Mechatronics, 2018, 30, 729-739.	1.0	1
309	Noninvasive Evaluation of Endothelial Function Based on Dilation Rate of Integrated Air-Cuff Plethysmogram. Iryou Kikigaku (the Japanese Journal of Medical Instrumentation), 2012, 82, 259-266.	0.0	1
310	An Evaluation of Automotive Interior Packages Based on Human Ocular and Joint Motor Properties. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 123-129.	0.2	1
311	A Tree-based Hierarchical Probabilistic Neural Network and Its Application to Hand Shape Discrimination. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 128-134.	0.2	1
312	Detaching and Grasping Strategy Inspired by Human Behavior. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2000, , 121-130.	0.6	1
313	RoboCup. Discovery of a Detaching Assist Motion(DAM) and Application for Robot Hands.. Journal of the Robotics Society of Japan, 2002, 20, 57-64.	0.1	1
314	Measurement of Human Hand Impedance in Dual Arm Configurations. Journal of Robotics and Mechatronics, 2004, 16, 635-642.	1.0	1
315	Direct drive of an implantable actuator using a transcutaneous energy transmission system. Journal of Life Support Engineering, 2006, 18, 17-24.	0.0	1
316	Simulation for Chemotactic Response of Paramecium Using Virtual Paramecium. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 1252-1259.	0.2	1
317	Non-invasive monitoring of arterial wall impedance in lower limb. Journal of the Society of Biomechanisms, 2006, 30, 143-150.	0.0	1
318	A Motor Function Evaluation System for Finger Tapping Movements Using Magnetic Sensors. Iryou Kikigaku (the Japanese Journal of Medical Instrumentation), 2008, 78, 909-918.	0.0	1
319	A Music Interface Manipulated Using EMG Signals-An Input System for Music Score Data-. Ningen Kogaku = the Japanese Journal of Ergonomics, 2011, 47, 51-60.	0.1	1
320	Noninvasive Estimation of Arterial Viscoelastic Indices Using a Foil-type Flexible Pressure Sensor and a Photoplethysmogram. International Journal on Electrical Engineering and Informatics, 2011, 3, 498-515.	0.5	1
321	A Log-linearized Arterial Viscoelastic Index and Its Application to Carotid Ultrasonography. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 563-570.	0.2	1
322	Discrimination of Dual-arm Motions Using a Joint Posterior Probability Neural Network. Transactions of the Society of Instrument and Control Engineers, 2013, 49, 568-575.	0.2	1
323	REDUNDANT DEGREES OF FREEDOM AND MOTOR IMPEDANCE CONTROL IN HUMAN MOVEMENTS. Biomechanisms, 1992, 11, 223-233.	0.1	1
324	Study on Multiple Contact Points Estimation for Finger-shaped Tactile Sensor Using PSD.. Journal of the Robotics Society of Japan, 1995, 13, 270-276.	0.1	1

#	Article	IF	Citations
325	Identification and Control for a Class of Plant with Uncertainties Using Neural Network. Transactions of the Society of Instrument and Control Engineers, 1996, 32, 510-516.	0.2	1
326	A Model of Bacterial Motor Control and Computer Simulation of the Chemotaxis. Transactions of the Society of Instrument and Control Engineers, 1998, 34, 1731-1738.	0.2	1
327	Grasp and manipulation for multiple objects. Advanced Robotics, 1999, 13, 353-354.	1.8	1
328	Obstacle Avoidance Method for Electric Wheelchairs Based on a Multi-Layered Non-Contact Impedance Model. Journal of Robotics, Networking and Artificial Life, 2017, 4, 45.	0.4	1
329	Investigation of efficacy of force stimuli for motion timing display. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 2P2-G07.	0.0	1
330	Discrimination of Dual-Arm Motions Using a Joint Posterior Probability Neural Network for Human-Robot Interfaces. Advances in Computational Intelligence and Robotics Book Series, 2018, , 347-374.	0.4	1
331	Non-Invasive Central Venous Pressure Measurement Using Enclosed-Zone Central Venous Pressure (ezCVP^{TM}). Circulation Journal, 2020, 84, 1112-1117.	1.6	1
332	Robotic rehabilitation system using human hand trajectory generation model in virtual curling task. , 2011, , .		1
333	Sleep EEG Analysis Based on a Scale Mixture Model and its Application to Sleep Spindle Detection. , 2022, , .		1
334	A Time-Series Scale Mixture Model of EEG with a Hidden Markov Structure for Epileptic Seizure Detection. , 2021, 2021, 5832-5836.		1
335	Extraction of surface orientation from texture using the gray level difference statistics. Systems and Computers in Japan, 1991, 22, 100-108.	0.2	0
336	Software of Living Systems.. Kagaku Kogaku Ronbunshu, 1999, 25, 169-176.	0.3	0
337	Experimental approach on grasping and manipulating multiple objects. , 2000, , 47-55.		0
338	Biomimetic Control of Mobile Robots Based on the Chemotactic Response Model of Paramecium. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2007, 73, 2757-2764.	0.2	0
339	Piercing based grasping by using self-tightening effect. , 2008, , .		0
340	Neuro-based olfactory model for estimation of sensory characteristic of mice. , 2009, , .		0
341	Changes in Autonomic Movement of Infants with Cerebral Paralysis Elucidated by Video Analysis. Rigakuryoho Kagaku, 2010, 25, 171-175.	0.1	0
342	Measurement of arterial viscoelastic properties using a foil-type pressure sensor and a photoplethysmography. , 2011, , .		0

#	Article	IF	Citations
343	Development of a condition monitoring system using an air-pack type pressure sensor for bedridden patients in a supine position. , 2012, , .		0
344	A neural network model for olfactory glomerular activity prediction. , 2012, , .		0
345	Assessment of pain with mechanical nociceptive stimuli by the change of arterial wall impedance. , 2012, , .		0
346	Force Perception Model in a Steering Operation Based on the Estimation of Muscle Activity. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 4917-4925.	0.2	0
347	Design of steering wheel characteristics based on human arm mechanical properties. , 2014, , .		0
348	Kansei-related assessment and its application to a design for steering wheel operation characteristics in a subjective force perception space. Transactions of the JSME (in Japanese), 2015, 81, 14-00463-14-00463.	0.2	0
349	Effort cube. , 2015, , .		0
350	A Probabilistic Neural Network with Anomaly Detection and Related Application to an EMG-controlled Prosthetic Hand. Journal of the Robotics Society of Japan, 2015, 33, 275-284.	0.1	0
351	Prediction of posture-dependent tremor by the calculation of the endpoint compliance. , 2016, 2016, 2169-2172.		0
352	Ability to cough can be evaluated through cough sounds: An experimental investigation of effects of microphone type on accuracy. , 2017, , .		0
353	Brain Activity While Waiting to Steer a Car. , 2018, , .		0
354	Unconstrained Monitoring of Pulse Pressure Waves from the Surface of the Subject's Back. , 2019, , .		0
355	Foot Arch Height Measurement during Gait with Smartphones or Action-cams. , 2019, , .		0
356	Analysis of the Effect of Sensomotoric Inserts in In-toe Gait Patients with Directional Statistics. , 2021, , .		0
357	Biomimetic Control of Myoelectric Prosthetic Hand Based on a Lambda-type Muscle Model. , 2021, , .		0
358	Bio-mimetic Impedance Control of an EMG-controlled Human Support Manipulator. The Proceedings of the JSME Annual Meeting, 2000, 2000.1, 453-454.	0.0	0
359	F-1207 Pattern Classification of EMG Signals Using an Event-Driven Task Model. The Proceedings of the JSME Annual Meeting, 2001, VI.01.1, 257-258.	0.0	0
360	Human factors getting important in robotics. Ningen Kogaku = the Japanese Journal of Ergonomics, 2002, 38, 237-242.	0.1	0

#	ARTICLE	IF	CITATIONS
361	Human-Prostheses Interface Using Neural Network. The Reference Collection of Annual Meeting, 2002, VIII.02.1, 188-189.	0.0	0
362	316 Equivalent Inertia of Human-Machine Systems under Constrained Environments. Proceedings of the JSME Bioengineering Conference and Seminar, 2005, 2004.17, 115-116.	0.0	0
363	Energy transmission system for endoscopy capsule. Journal of Life Support Engineering, 2005, 17, 50-50.	0.0	0
364	Hierarchical Clustering with Tree Structure Based on Probabilistic Neural Networks. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 283-290.	0.2	0
365	An Air-core Transcutaneous Energy Transmission System for an Artificial Heart. Journal of Life Support Engineering, 2006, 18, 145-145.	0.0	0
366	Arterial Wall Impedance and Diagnosis Supporting System on Blood Cirulation Using Photoplethysmogram and Pulse Pressure. Journal of Life Support Engineering, 2006, 18, 121-121.	0.0	0
367	Development of a Wheelchair-type Robot Agent System Manipulated by EMG Signals. Journal of Life Support Engineering, 2006, 18, 63-63.	0.0	0
368	A New Manipulation Method for Environment Control Systems using Shape Sensors. Journal of Life Support Engineering, 2006, 18, 134-141.	0.0	0
369	Analysis of specific absorption rate and current density in energy transmission for a wireless capsule endoscope. Journal of Life Support Engineering, 2006, 18, 103-103.	0.0	0
370	Simultaneous Learning of Robot Impedance Parameters Using Neural Networks. Journal of Robotics and Mechatronics, 2007, 19, 106-113.	1.0	0
371	A Recurrent Probabilistic Neural Network for EMG Pattern Recognition. , 2008, , 370-387.		0
372	A34 Development of non-constraint monitoring technology to detect drink-driving. The Proceedings of the Symposium on the Motion and Vibration Control, 2009, 2009.11, 408-411.	0.0	0
373	Computational Inferences on Alteration of Neurotransmission in Chemotaxis Learning in Caenorhabditis elegans. Lecture Notes in Computer Science, 2010, , 291-300.	1.3	0
374	Noninvasive Monitoring of Arterial Viscoelastic Indices Using a Foil-type Pressure Sensor. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 1518-1527.	0.2	0
375	Development of a Palpable Carotid Pulse Pressure Sensor Using Electromagnetic Induction. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1934-1942.	0.2	0
376	A Recurrent Probabilistic Neural Network with Dimensional Reduction and Its Application to Time Series EEG Discrmination. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 199-206.	0.2	0
377	A Bioassay System for Water-Quality Monitoring Using a Small Fish. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 1616-1624.	0.2	0
378	2D07 Medical/Engineering Corporation based on Arterial Wall Viscoelastic Index. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 361-362.	0.0	0

#	ARTICLE	IF	CITATIONS
379	1A23 Novel Standing Support System Using Virtual Impedance Model. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 23-24.	0.0	0
380	A Reduced-dimensional Recurrent Probabilistic Neural Network Based on Time-series Discriminant Component Analysis. Transactions of the Society of Instrument and Control Engineers, 2014, 50, 356-365.	0.2	0
381	On Man-Machine Control Systems Manipulated by Quantized EMG Signal. Transactions of the Society of Instrument and Control Engineers, 1984, 20, 747-753.	0.2	0
382	Impedance Transformations in Multi-Joint Arm Movements with Redundant Degrees of Freedom. IEEJ Transactions on Electronics, Information and Systems, 1988, 108, 471-477.	0.2	0
383	Dynamic Characteristics of Man-Machine Control System with EMG Manipulation and Electrocutaneous Stimulation Feedback. Transactions of the Society of Instrument and Control Engineers, 1988, 24, 292-299.	0.2	0
384	THREE-DIMENSIONAL HUMAN MOTION ANALYSIS SYSTEM AND APPLICATION TO A CONSTRAINED TASK. Biomechanisms, 1990, 10, 119-128.	0.1	0
385	Distributed Trajectory Generation for Redundant Manipulators Based on Virtual Arms. Transactions of the Society of Instrument and Control Engineers, 1991, 27, 1412-1419.	0.2	0
386	Distributed Feedback Control for Redundant Manipulators Based on Virtual Arms. Transactions of the Society of Instrument and Control Engineers, 1992, 28, 1314-1320.	0.2	0
387	Trajectory Generation for Multiple Manipulators Using Virtual Arms. Transactions of the Society of Instrument and Control Engineers, 1993, 29, 374-376.	0.2	0
388	3D Artificial Active Antenna. Transactions of the Society of Instrument and Control Engineers, 1995, 31, 1915-1923.	0.2	0
389	Pulling Motion Based Tactile Sensing for Concave Surface. Transactions of the Society of Instrument and Control Engineers, 1997, 33, 322-330.	0.2	0
390	Quantification of Sympathetic Nervous Activity Based on Log-linearized Peripheral Arterial Viscoelastic Model and Its Application to Objective Assessment of Pain during Electrocutaneous Stimulation. Transactions of the Society of Instrument and Control Engineers, 2015, 51, 627-633.	0.2	0
391	Influence of visual and tactile feedback on haptic sensation by muscle electric stimulation. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 191-192.	0.0	0
392	Palpation force display by enhancing the force response of a surgical training phantom. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 19-20.	0.0	0
393	Computational Prediction of Subjective Sense of Force Based on Muscle Activity Estimation. Advances in Intelligent Systems and Computing, 2016, , 687-694.	0.6	0
394	Force and Motion Analysis of larval zebrafish (Danio rerio) using a body dynamics model. Proceedings of International Conference on Artificial Life and Robotics, 2017, 22, 494-501.	0.1	0
395	A Voice Signal-Based Manipulation Method for the Bio-Remote Environment Control System Based on Candidate Word Discriminations. Journal of Robotics, Networking and Artificial Life, 2017, 4, 87.	0.4	0
396	An Estimation Method for Environmental Friction Based on Body Dynamic Model of Caenorhabditis elegans. Proceedings of International Conference on Artificial Life and Robotics, 2017, 22, 511-519.	0.1	0

#	Article	IF	Citations
397	A Human Reaching Movement Model for Myoelectric Prosthesis Control. Journal of Robotics, Networking and Artificial Life, 2017, 4, 22.	0.4	0
398	A Training Method for the Speech Controlled Environmental Control System Based on Candidate Word Discriminations. Journal of Robotics, Networking and Artificial Life, 2018, 5, 135.	0.4	0
399	Analysis of movement of carotid artery using template matching: the second report. Neurosonology, 2019, 32, 4-9.	0.0	0
400	Enclosed Zone Flow-mediated Dilation (ezFMD): Development of a Novel Method for Evaluating Vascular Endothelial Function through Medical and Engineering Collaboration. The Journal of Japanese College of Angiology, 2019, 59, 23-28.	0.0	0
401	A Log-linearized Viscoelastic Model for Measuring Changes in Vascular Impedance. , 0, , 326-334.		0
402	Pattern Discrimination of Mechanomyogram Using a Delta-Sigma Modulated Probabilistic Neural Network. , 2008, , 723-729.		0
403	Increased cerebrovascular reactivity in selected brain regions after extracranial-intracranial bypass improves the speed and accuracy of visual cancellation in patients with severe steno-occlusive disease: a preliminary study. Neurosurgical Review, 2022, , 1.	2.4	0
404	A Mutual Control Method for a Multi-layered Non-contact Impedance Model-based Mobile Robots. Proceedings of International Conference on Artificial Life and Robotics, 2022, 27, 270-274.	0.1	0
405	Artificially-reconstructed brain images with stroke lesions from non-imaging data: modeling in categorized patients based on lesion occurrence and sparsity. Scientific Reports, 2022, 12, .	3.3	0