

Toshio Tsuji

List of Publications by Year in descending order

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Version: 2024-02-01

405
papers

4,409
citations

172457

29
h-index

168389

53
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416
all docs

416
docs citations

416
times ranked

2965
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictors of Stroke Outcome Extracted from Multivariate Linear Discriminant Analysis or Neural Network Analysis. <i>Journal of Atherosclerosis and Thrombosis</i> , 2022, 29, 99-110.	2.0	9
2	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. <i>Neurosurgical Review</i> , 2022, , 1.	2.4	0
3	A Mutual Control Method for a Multi-layered Non-contact Impedance Model-based Mobile Robots. <i>Proceedings of International Conference on Artificial Life and Robotics</i> , 2022, 27, 270-274.	0.1	0
4	Sleep EEG Analysis Based on a Scale Mixture Model and its Application to Sleep Spindle Detection. , 2022, , .		1
5	Toward a Robust Estimation of Respiratory Rate Using Cardiovascular Biomarkers: Robustness Analysis Under Pain Stimulation. <i>IEEE Sensors Journal</i> , 2022, 22, 9904-9913.	4.7	3
6	Artificially-reconstructed brain images with stroke lesions from non-imaging data: modeling in categorized patients based on lesion occurrence and sparsity. <i>Scientific Reports</i> , 2022, 12, .	3.3	0
7	Humanâ€“Machine Interfaces Based on Bioelectric Signals: A Narrative Review with a Novel System Proposal. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2022, 17, 1536-1544.	1.4	7
8	The right hemisphere is important for driving-related cognitive function after stroke. <i>Neurosurgical Review</i> , 2021, 44, 977-985.	2.4	9
9	Non-Gaussianity Detection of EEG Signals Based on a Multivariate Scale Mixture Model for Diagnosis of Epileptic Seizures. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 515-525.	4.2	15
10	Spontaneous movements in the newborns: a tool of quantitative video analysis of preterm babies. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 199, 105838.	4.7	13
11	Neural network-based modeling of the number of microbubbles generated with four circulation factors in cardiopulmonary bypass. <i>Scientific Reports</i> , 2021, 11, 549.	3.3	6
12	Peripheral arterial stiffness during electrocutaneous stimulation is positively correlated with pain-related brain activity and subjective pain intensity: an fMRI study. <i>Scientific Reports</i> , 2021, 11, 4425.	3.3	10
13	Cardiorespiratory synchronisation and systolic blood pressure correlation of peripheral arterial stiffness during endoscopic thoracic sympathectomy. <i>Scientific Reports</i> , 2021, 11, 5966.	3.3	4
14	An-EMG-controlled Mobile Robot Based on a Multi-layered Non-contact Impedance Model. , 2021, , .		1
15	Analysis of the Effect of Sensomotoric Inserts in In-toe Gait Patients with Directional Statistics. , 2021, , .		0
16	Prediction of blood pressure change during surgical incision under opioid analgesia using sympathetic response evoking threshold. <i>Scientific Reports</i> , 2021, 11, 9558.	3.3	6
17	Forward and backward locomotion patterns in <i>C. elegans</i> generated by a connectome-based model simulation. <i>Scientific Reports</i> , 2021, 11, 13737.	3.3	8
18	EMG pattern recognition via Bayesian inference with scale mixture-based stochastic generative models. <i>Expert Systems With Applications</i> , 2021, 185, 115644.	7.6	8

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19	Measurement of emotional states of zebrafish through integrated analysis of motion and respiration using bioelectric signals. Scientific Reports, 2021, 11, 187.	3.3	5
20	Biomimetic Control of Myoelectric Prosthetic Hand Based on a Lambda-type Muscle Model. , 2021, , .		0
21	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
22	Pen-point Trajectory Analysis During Trail Making Test Based on a Time Base Generator Model. , 2021, 2021, 6215-6219.		7
23	Automatic control of blood flow rate on the arterial-line side during cardiopulmonary bypass. , 2021, 2021, 5011-5014.		2
24	A Time-Series Scale Mixture Model of EEG with a Hidden Markov Structure for Epileptic Seizure Detection. , 2021, 2021, 5832-5836.		1
25	Video-based evaluation of infant crawling toward quantitative assessment of motor development. Scientific Reports, 2020, 10, 11266.	3.3	3
26	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
27	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
28	Recurrent probabilistic neural network-based short-term prediction for acute hypotension and ventricular fibrillation. Scientific Reports, 2020, 10, 11970.	3.3	9
29	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
30	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
31	Steady-State Model of Pressure-Flow Characteristics Modulated by Occluders in Cardiopulmonary Bypass Systems. IEEE Access, 2020, 8, 220962-220972.	4.2	3
32	A New Approach for Training on EMG-based Prosthetic Hand Control. , 2020, , .		4
33	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
34	A Training System for Brain-Computer Interfaces Based on Motor Imagery Selection. , 2020, , .		2
35	Spatiotemporal Parameterization of Human Reaching Movements Based on Time Base Generator. IEEE Access, 2020, 8, 104944-104955.	4.2	5
36	Markerless Measurement and Evaluation of General Movements in Infants. Scientific Reports, 2020, 10, 1422.	3.3	35

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37	Online Prediction of Normal Blood Viscosity During Cardiopulmonary Bypass Using Hematocrit- and Temperature-Dependent Model. IEEE Access, 2020, 8, 5611-5621.	4.2	1
38	Targeted Central Nervous System Irradiation of Caenorhabditis elegans Induces a Limited Effect on Motility. Biology, 2020, 9, 289.	2.8	6
39	Non-Invasive Central Venous Pressure Measurement Using Enclosed-Zone Central Venous Pressure (ezCVP TM). Circulation Journal, 2020, 84, 1112-1117.	1.6	1
40	A myoelectric prosthetic hand with muscle synergy-based motion determination and impedance model-based biomimetic control. Science Robotics, 2019, 4, .	17.6	110
41	Muscle Fatigue Analysis by Using a Scale Mixture-based Stochastic Model of Surface EMG Signals. , 2019, 2019, 1948-1951.		2
42	Development of fMRI-Compatible Steering Reaction Force Generation Unit. IEEE/ASME Transactions on Mechatronics, 2019, 24, 549-560.	5.8	3
43	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
44	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
45	Unconstrained Monitoring of Pulse Pressure Waves from the Surface of the Subject's Back. , 2019, , .		0
46	Foot Arch Height Measurement during Gait with Smartphones or Action-cams. , 2019, , .		0
47	Unconstrained Vital Sign Monitoring System Using an Aortic Pulse Wave Sensor. Scientific Reports, 2019, 9, 17475.	3.3	6
48	Quantitative Evaluation of Human Finger Tapping Movements Through Magnetic Measurements. IEEE/ASME Transactions on Mechatronics, 2019, 24, 186-196.	5.8	3
49	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
50	Analysis of movement of carotid artery using template matching: the second report. Neurosonology, 2019, 32, 4-9.	0.0	0
51	VR Training System of Step Timing for Baseball Batter Using Force Stimulus. Lecture Notes in Electrical Engineering, 2019, , 321-326.	0.4	2
52	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
53	Reinforced Suit Using Low Pressure Driven Artificial Muscles For Baseball Bat Swing. , 2018, , .		5
54	Quantitative Evaluation of Pain during Electrocutaneous Stimulation using a Log-Linearized Peripheral Arterial Viscoelastic Model. Scientific Reports, 2018, 8, 3091.	3.3	17

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55	Real-Time Cameraless Measurement System Based on Bioelectrical Ventilatory Signals to Evaluate Fear and Anxiety. <i>Zebrafish</i> , 2018, 15, 133-144.	1.1	7
56	A soft exoskeleton suit to reduce muscle fatigue with pneumatic artificial muscles. , 2018, , .		7
57	ForceHand Glove: A Wearable Force-Feedback Glove With Pneumatic Artificial Muscles (PAMs). <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 2416-2423.	5.1	36
58	Predicting ischemic stroke after carotid artery stenting based on proximal calcification and the jellyfish sign. <i>Journal of Neurosurgery</i> , 2018, 128, 1280-1288.	1.6	16
59	Selection of Motor Imageries for Brain-Computer Interfaces Based on Partial Kullback-Leibler Information Measure. , 2018, , .		2
60	Towards Objective Olfactory Evaluation Based On Peripheral Arterial Stiffness And Heart Rate Variability Indices. , 2018, 2018, 5618-5623.		1
61	Brain Activity While Waiting to Steer a Car. , 2018, , .		0
62	Detection of Echinocyte during Perfusion with Oxygenator Based on Continuous Blood Viscosity Monitoring. , 2018, 2018, 4448-4451.		1
63	An EMG Pattern Classification Method Based on a Mixture of Variance Distribution Models. , 2018, 2018, 5216-5219.		3
64	A Mobile Cough Strength Evaluation Device Using Cough Sounds. <i>Sensors</i> , 2018, 18, 3810.	3.8	17
65	A computational model of internal representations of chemical gradients in environments for chemotaxis of <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2018, 8, 17190.	3.3	9
66	Unconstrained Monitoring of Biological Signals Using an Aortic Pulse Wave Sensor. , 2018, 2018, 4327-4330.		5
67	A new arterial mechanical property indicator reflecting differences in invasive stimulus intensity induced by alteration of remifentanil concentration during laryngoscopy. <i>Minerva Anestesiologica</i> , 2018, 84, 311-318.	1.0	6
68	Assessment of Lower-limb Vascular Endothelial Function Based on Enclosed Zone Flow-mediated Dilation. <i>Scientific Reports</i> , 2018, 8, 9263.	3.3	2
69	Prediction of Perceived Steering Wheel Operation Force by Muscle Activity. <i>IEEE Transactions on Haptics</i> , 2018, 11, 590-598.	2.7	4
70	Estimation of Cough Peak Flow Using Cough Sounds. <i>Sensors</i> , 2018, 18, 2381.	3.8	14
71	Soft Wearable Augmented Walking Suit With Pneumatic Gel Muscles and Stance Phase Detection System to Assist Gait. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 4257-4264.	5.1	37
72	Unplugged Powered Suit with Pneumatic Gel Muscles. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 247-251.	0.4	2

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73	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
74	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
75	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
76	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
77	Prediction of Affective Feeling of Tactile Texture Based on Measurement of Fingertip Deformation. , 2018, , .		2
78	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
79	Unpowered Sensorimotor-Enhancing Suit Reduces Muscle Activation and Improves Force Perception. IEEE Transactions on Human-Machine Systems, 2017, 47, 1158-1163.	3.5	1
80	Evaluation of unplugged powered suit with pneumatic gel muscles. , 2017, , .		2
81	Variance distribution analysis of surface EMG signals based on marginal maximum likelihood estimation. , 2017, 2017, 2514-2517.		3
82	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
83	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
84	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
85	Continuous Blood Viscosity Monitoring System for Cardiopulmonary Bypass Applications. IEEE Transactions on Biomedical Engineering, 2017, 64, 1503-1512.	4.2	7
86	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
87	Ability to cough can be evaluated through cough sounds: An experimental investigation of effects of microphone type on accuracy. , 2017, , .		0
88	A virtual training system of a hydraulic excavator using a remote controlled excavator with augmented reality. , 2017, , .		4
89	Analysis of movement of carotid artery using template matching. Neurosonology, 2017, 30, 139-143.	0.0	2
90	An artificial EMG generation model based on signal-dependent noise and related application to motion classification. PLoS ONE, 2017, 12, e0180112.	2.5	13

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91	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
92	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
93	Electromyographic Interface Technology and Robotic Arm Prostheses. Journal of the Japan Society for Precision Engineering, 2017, 83, 1010-1013.	0.1	2
94	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
95	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
96	An Estimation Method for Environmental Friction Based on Body Dynamic Model of ligCaenorhabditis elegans/ig. Journal of Robotics, Networking and Artificial Life, 2017, 4, 32.	0.4	2
97	A Human Reaching Movement Model for Myoelectric Prosthesis Control. Journal of Robotics, Networking and Artificial Life, 2017, 4, 22.	0.4	0
98	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
99	Development of an earlobe crease identification system to support diagnosis of arteriosclerosis. , 2016, 2016, 2374-2377.		2
100	Blood viscosity monitoring during cardiopulmonary bypass based on pressure-flow characteristics of a Newtonian fluid. , 2016, 2016, 2331-2334.		2
101	Endothelial Function Assessed by Automatic Measurement of Enclosed Zone Flowâ€Mediated Vasodilation Using an Oscillometric Method Is an Independent Predictor of Cardiovascular Events. Journal of the American Heart Association, 2016, 5, .	3.7	19
102	Prediction of posture-dependent tremor by the calculation of the endpoint compliance. , 2016, 2016, 2169-2172.		0
103	Quantifying Parkinsonâ€™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
104	Stiffness Display by Muscle Contraction Via Electric Muscle Stimulation. IEEE Robotics and Automation Letters, 2016, 1, 1014-1019.	5.1	10
105	Surgical Grasping Forceps With Enhanced Sensorimotor Capability via the Stochastic Resonance Effect. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2624-2634.	5.8	20
106	An Interactive Training System for Myoelectric Prostheses using Virtual Hand. Journal of the Robotics Society of Japan, 2016, 34, 404-410.	0.1	1
107	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
108	Computational Prediction of Subjective Sense of Force Based on Muscle Activity Estimation. Advances in Intelligent Systems and Computing, 2016, , 687-694.	0.6	0

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109	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
110	A simple accurate chest-compression depth gauge using magnetic coils during cardiopulmonary resuscitation. Review of Scientific Instruments, 2015, 86, 124301.	1.3	1
111	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
112	Effort cube. , 2015, , .		0
113	A non-Gaussian approach for biosignal classification based on the Johnson SU translation system. , 2015, , .		2
114	Computer simulation of chemotaxis in caenorhabditis elegans in consideration of whole-body movements. , 2015, , .		2
115	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
116	Operation assistance for the Bio-Remote environmental control system using a Bayesian Network-based prediction model. , 2015, 2015, 1160-3.		3
117	A neural network model of Caenorhabditis elegans and simulation of chemotaxis-related information processing in the neural network. , 2015, , .		3
118	Human Interface Design Method Based on the Estimation of Muscle Effort by a Musculoskeletal Model. , 2015, , .		1
119	A neural network based infant monitoring system to facilitate diagnosis of epileptic seizures. , 2015, 2015, 5614-7.		6
120	Electromyographic prosthetic hand using grasping-force-magnification mechanism with five independently driven fingers. Advanced Robotics, 2015, 29, 1586-1598.	1.8	9
121	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
122	Analysis of Operational Comfort in Manual Tasks Using Human Force Manipulability Measure. IEEE Transactions on Haptics, 2015, 8, 8-19.	2.7	14
123	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
124	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
125	Wearable Pseudo-Haptic Interaction by Using Electrical Muscle Stimulation. Lecture Notes in Electrical Engineering, 2015, , 135-140.	0.4	6
126	Fingertip Force Estimation Based on the Deformation of the Fingertip. Lecture Notes in Electrical Engineering, 2015, , 201-205.	0.4	1

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127	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
128	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
129	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
130	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
131	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
132	Design of steering wheel characteristics based on human arm mechanical properties. , 2014, , .		0
133	Development of a continuous sphygmomanometer using electromagnetic induction. , 2014, , .		1
134	Unloading muscle activation enhances force perception. , 2014, , .		2
135	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
136	Haptic rendering of a needle insertion by enhancing the real force response of a base object. , 2014, , .		4
137	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
138	Design of pedal characteristics making use of human leg mechanical properties. Transactions of the JSME (in Japanese), 2014, 80, BMS0019-BMS0019.	0.2	2
139	Design of gearshift lever characteristics based on human arm mechanical properties. Transactions of the JSME (in Japanese), 2014, 80, BMS0247-BMS0247.	0.2	2
140	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
141	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
142	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
143	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
144	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

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145	Investigation of the subjective force perception based on the estimation of the muscle activities during a steering operation. , 2013, , .		8
146	Novel method for mitigation of body sway and preliminary results for tandem standing. , 2013, , .		2
147	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
148	A training system for the MyoBock hand in a virtual reality environment. , 2013, , .		6
149	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
150	Evaluation of Arterial Stiffness during the Flow-Mediated Dilation Test. , 2013, , .		2
151	Improvement of tactile sensitivity by stochastic resonance effect - Applications to surgical grasping forceps. , 2013, 2013, 4601-4.		5
152	Virtual light touch contact: A novel concept for mitigation of body sway. , 2013, , .		18
153	Bioelectric signal classification using a recurrent probabilistic neural network with time-series discriminant component analysis. , 2013, 2013, 5394-7.		3
154	Biomechanical and Psychophysical Evaluation of Operating Loads in Vehicular Driving. , 2013, , .		2
155	Monitoring of peripheral vascular condition using a log-linearized arterial viscoelastic index during endoscopic thoracic sympathectomy. , 2013, 2013, 2587-90.		4
156	A Subjective Force Perception Model of Humans and Its Application to a Steering Operation System of a Vehicle. , 2013, , .		12
157	A log-linearized arterial viscoelastic model for evaluation of the carotid artery. , 2013, 2013, 2591-4.		1
158	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
159	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
160	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
161	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
162	A Bioassay System for Water-Quality Monitoring Using a Small Fish. IEJ Transactions on Electronics, Information and Systems, 2013, 133, 1616-1624.	0.2	0

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163	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
164	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
165	Severity estimation of finger-tapping caused by Parkinson's disease by using linear discriminant regression analysis. , 2012, 2012, 4315-8.		5
166	Multi-channel surface EMG classification based on a quasi-optimal selection of motions and channels. , 2012, , .		2
167	Development of a condition monitoring system using an air-pack type pressure sensor for bedridden patients in a supine position. , 2012, , .		0
168	A neural network model for olfactory glomerular activity prediction. , 2012, , .		0
169	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
170	Modeling of the pharyngeal muscle in <i>Caenorhabditis elegans</i> based on FitzHugh-Nagumo equations. Artificial Life and Robotics, 2012, 17, 173-179.	1.2	4
171	Assessment of pain with mechanical nociceptive stimuli by the change of arterial wall impedance. , 2012, , .		0
172	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
173	EMG-based control for a feeding support robot using a probabilistic neural network. , 2012, , .		9
174	Development of a palpable carotid pulse pressure sensor using electromagnetic induction. , 2012, , .		1
175	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
176	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
177	A Study on Design Factors of Gas Pedal Operation. SAE International Journal of Passenger Cars - Mechanical Systems, 2012, 5, 30-35.	0.4	5
178	Improvement of Tactile Sensitivity by Stochastic Resonance: Application to Vibrating Forceps. , 2012, , .		2
179	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
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