Takeshi Ando

List of Publications by Year
in descending order

46 papers	283 citations	1307594 7 h-index	1199594 12 g-index
46 all docs	46 docs citations	46 times ranked	166 citing authors

#	Article	IF	Citations
1	A Haptic Interface â€œForce Blinker 2â€•for Navigation of the Visually Impaired. IEEE Transactions on Industrial Electronics, 2012, 59, 4112-4119.	7.9	43
2	Myoelectric-Controlled Exoskeletal Elbow Robot to Suppress Essential Tremor: Extraction of Elbow Flexion Movement Using STFTs and TDNN. Journal of Robotics and Mechatronics, 2012, 24, 141-149.	1.0	19
3	Development of an Exoskeleton to Support Eating Movements in Patients with Essential Tremor. Journal of Robotics and Mechatronics, 2013, 25, 949-958.	1.0	18
4	Development of robotic upper limb orthosis with tremor suppressiblity and elbow joint movability. , 2011, , .		16
5	Extraction of voluntary movement for an EMG controlled exoskeltal robot of tremor patients. , 2009, , .		14
6	Analysis of EMG signals of patients with essential tremor focusing on the change of tremor frequency. , 2012, 2012, 2244-50.		14
7	Tremor frequency based filter to extract voluntary movement of patients with essential tremor. , 2012, , .		14
8	An algorithm of walk phase estimation with only treadmill motor current. , 2009, , .		13
9	Treadmill motor current value based walk phase estimation. , 2009, 2009, 7131-4.		12
10	Intelligent Trunk Corset to Support Rollover of Cancer Bone Metastasis Patients. IEEE/ASME Transactions on Mechatronics, 2010, 15, 181-190.	5.8	10
11	Intelligent corset to support rollover of cancer bone metastasis patients - Mechanism to restrict the trunk ROM. , 2008, , .		9
12	Micro Macro Neural Network to Recognize Rollover Movement. Advanced Robotics, 2011, 25, 253-271.	1.8	9
13	Development of new measurement system of thoracic excursion with biofeedback: reliability and validity. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 45.	4.6	8
14	The weight load inconsistency effect on voluntary movement recognition of essential tremor patient. , 2011, , .		7
15	1P1-D07 Walking support robot "Tread Walk" for alleviating asymmetricity of hemiplegic walk : Effect of walk speed difference with separated treadmill. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2008, 2008, _1P1-D07_1-_1P1-D07_2.	0.0	7
16	Soft Interaction Between Body Weight Support System and Human Using Impedance Control Based on Fractional Calculus. Advanced Robotics, 2012, 26, 1253-1269.	1.8	6
17	Development of an elbow-forearm interlock joint mechanism toward an exoskeleton for patients with essential tremor. , 2014, , .		6
18	Pilot Study of Split Belt Treadmill Based Gait Rehabilitation System for Symmetric Stroke Gait. Journal of Robotics and Mechatronics, 2012, 24, 884-893.	1.0	6

#	Article	IF	Citations
19	Fractional impedance control for reproducing the material properties of muscle and its application in a body weight support system. , 2010, , .		5
20	Development of a cane with a haptic interface using IC tags for the visually impaired. , 2009, , .		4
21	An Attachable Standing-Assist-Robot to Motorized Bed. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012, 78, 151-162.	0.2	4
22	Algorithm to demodulate an electromyogram signal modulated by essential tremor. ROBOMECH Journal, 2017, 4, .	1.6	4
23	Estimation of Rotator Cuff Activity Using a Surface EMG during Shoulder External Rotation. , 2006, , .		3
24	A new mobility-aid vehicle with a unique turning system. , 2008, , .		3
25	Mechanism and evaluation of a haptic interface “Force Blinker 2” for navigation of the visually impaired. , 2010, , .		3
26	Fractional impedance control for reproducing the material properties of muscle. , 2010, , .		3
27	Split belt treadmill with differential velocity and biofeedback for well-balanced gait of patient with stroke. , 2010, , .		3
28	A Gait Phase Measurement System Using Treadmill Motor Current. Advanced Robotics, 2012, 26, 1727-1746.	1.8	3
29	Biofeedback Effect of Thoracic Excursion in Chest Expansion Training. Journal of Biomechanical Science and Engineering, 2012, 7, 328-334.	0.3	3
30	High path tracking control of an intelligent walking-support robot under time-varying friction and unknown parameters. Advanced Robotics, 2017, 31, 739-752.	1.8	3
31	Kinematic walking analysis on a new vehicle “Tread-Walk” with active velocity control of treadmill belt. , 2009, 2009, 5977-80.		2
32	Response Evaluation of Rollover Recognition in Myoelectric Controlled Orthosis Using Pneumatic Rubber Muscle for Cancer Bone Metastasis Patient. Journal of Robotics and Mechatronics, 2011, 23, 302-309.	1.0	2
33	Development of a Micro-Macro Neural Network to recognize rollover movement. , 2008, 2008, 5228-33.		1
34	Optimal design of a micro macro neural network to recognize rollover movement. , 2009, , .		1
35	EMG based design and evaluation of Micro Macro Neural Network for rollover support trunk orthosis. , 2010, , .		1
36	Visual Bio-Feedback System of Gait Phase in Split Belt Treadmill. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 4189-4203.	0.2	1

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37	Repeatability analysis of rollover recognition in changing myoelectric electrode condition. , 2011, 2011, 619-23.		1
38	Thoracic ROM measurement system with visual bio-feedback: System design and biofeedback evaluation. , 2011, 2011, 1272-4.		1
39	Brain activity measurement based evaluation of active control of a treadmill. , 2012, , .		1
40	Development of a manipuiator assisting postural stability of hemiplegic gait. Journal of Life Support Engineering, 2008, 20, 192-192.	0.0	0
41	Recognition of Outer Muscle's EMG and Inner Muscle's EMG Using Support Vector Machine : Recognition of Abduction and External Rotation Movements of Shoulder Joint(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 297-303.	0.2	0
42	Human Learning Strategy in Multi-Movement Discrimination (Leg Controlled Electric Wheelchair) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 of Mechanical Engineers, Part C, 2013, 79, 2037-2047.	0.2	0
43	Evaluation of treadmill velocity control based on user's intention of acceleration or deceleration. , 2014, , .		0
44	Development of Rollover Support System with EMG Control for Cancer Bone Metastasis Patients. Journal of Life Support Engineering, 2007, 19, 123-123.	0.0	0
45	Development of a walking going out support robot using IC tagâˆ¼Proposal of direction instruction interface by forceâˆ¼. Journal of Life Support Engineering, 2008, 20, 186-186.	0.0	0
46	Medical and Assistive Robotics Based on Collaboration of Medicine and Engineering. The Journal of Japanese Society of Stomatognathic Function, 2016, 22, 104-108.	0.0	0