

# Jin-Shin Lai

## List of Publications by Year in descending order

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96  
papers

2,859  
citations

218592

26  
h-index

189801

50  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2316  
citing authors

#	ARTICLE	IF	CITATIONS
1	IMU-Based Estimation of Lower Limb Motion Trajectory With Graph Convolution Network. IEEE Sensors Journal, 2021, 21, 24549-24557.	2.4	10
2	The effect of electroacupuncture merged with rehabilitation for frozen shoulder syndrome: A single-blind randomized sham-acupuncture controlled study. Journal of the Formosan Medical Association, 2020, 119, 81-88.	0.8	21
3	Velocity Field based Active-Assistive Control for Upper Limb Rehabilitation Exoskeleton Robot. , 2020, , .		3
4	Deep Learning based Motion Prediction for Exoskeleton Robot Control in Upper Limb Rehabilitation. , 2019, , .		34
5	Interactive torque controller with electromyography intention prediction implemented on exoskeleton robot NTUH-II. , 2017, , .		6
6	Active control with force sensor and shoulder circumduction implemented on exoskeleton robot NTUH-II. , 2016, , .		3
7	Adaptive filter application for the safety of detecting lung sound on ambulance. , 2016, , .		0
8	Adaptive filter application for the safety of detecting lung sound on ambulance. , 2016, , .		0
9	The feasibility study of mobile-to-mobile communication for auscultation of heart sound and lung sound. , 2015, , .		3
10	Bidirectional and Multi-User Telerehabilitation System: Clinical Effect on Balance, Functional Activity, and Satisfaction in Patients with Chronic Stroke Living in Long-Term Care Facilities. Sensors, 2014, 14, 12451-12466.	2.1	60
11	Real-time mobile-to-mobile stethoscope for distant healthcare. , 2014, , .		3
12	Filtering performance of reducing the sampling rate of sound card: Perspectives on different signal-to-noise ratios. , 2014, , .		0
13	Reducing anterior tibial translation by applying functional electrical stimulation in dynamic knee extension exercises: Quantitative results acquired via marker tracking. Clinical Biomechanics, 2013, 28, 549-554.	0.5	4
14	Low-Cost Tele-assessment System for Home-Based Evaluation of Reaching Ability Following Stroke. Telemedicine Journal and E-Health, 2013, 19, 973-978.	1.6	11
15	Tai Chi Chuan Exercise for Patients with Cardiovascular Disease. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-9.	0.5	45
16	Tai Chi Chuan in Medicine and Health Promotion. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-17.	0.5	107
17	Serum adiponectin levels are associated with hepatitis B viral load in overweight to obese hepatitis B virus carriers. Obesity, 2013, 21, 291-296.	1.5	30
18	A joint localizer for finger length measurements. , 2013, , .		2

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19	Effect of a Cane on Sit-to-Stand Transfer in Subjects with Hemiparesis. American Journal of Physical Medicine and Rehabilitation, 2013, 92, 191-202.	0.7	17
20	A gravity compensation-based upper limb rehabilitation robot. , 2012, , .		1
21	Cardiorespiratory Function of Pediatric Heart Transplant Recipients in the Early Postoperative Period. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 156-161.	0.7	3
22	Pulse Energy as a Reliable Reference for Twitch Forces Induced by Transcutaneous Neuromuscular Electrical Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 574-583.	2.7	12
23	The risky body mass index ranges for significant hepatitis B viral load: A campus-based study. Obesity Research and Clinical Practice, 2012, 6, e31-e38.	0.8	14
24	Usability Evaluation of Mobile Medical Treatment Carts: Another Explanation by Information Engineers. Journal of Medical Systems, 2012, 36, 1327-1334.	2.2	7
25	The effects of physical activity, body mass index (BMI) and waist circumference (WC) on glucose intolerance in older people: A nationwide study from Taiwan. Archives of Gerontology and Geriatrics, 2011, 52, 54-59.	1.4	11
26	Clinical effects of combined bilateral arm training with functional electrical stimulation in patients with stroke. , 2011, 2011, 5975367.		9
27	Categorized level management agent with forest-based data structures for accessing personal health records. , 2011, , .		1
28	The Strategic Use of Standardized Information Exchange Technology in a University Health System. Telemedicine Journal and E-Health, 2010, 16, 314-326.	1.6	3
29	Electric compass aided global positioning system navigation for powered wheelchairs. Disability and Rehabilitation: Assistive Technology, 2010, 5, 223-229.	1.3	4
30	An Agile Enterprise Regulation Architecture for Health Information Security Management. Telemedicine Journal and E-Health, 2010, 16, 807-817.	1.6	11
31	A Service-Oriented Healthcare Message Alerting Architecture in an Asia Medical Center: A Case Study. International Journal of Environmental Research and Public Health, 2009, 6, 1870-1881.	1.2	10
32	A pelvic motion driven electrical stimulator for drop-foot treatment. , 2009, 2009, 666-9.		3
33	Safety measures implemented for modular functioning electrical stimulators. , 2009, 2009, 7220-3.		0
34	An Interflow System Requirement Analysis in Health Informatics Field. , 2009, , .		1
35	Evolution and Integration of Medical Laboratory Information System in an Asia National Medical Center. IEICE Transactions on Communications, 2009, E92-B, 379-386.	0.4	2
36	Electrophysiological and Functional Effects of Shock Waves on the Sciatic Nerve of Rats. Ultrasound in Medicine and Biology, 2008, 34, 1688-1696.	0.7	24

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37	Tai Chi Training for Patients with Coronary Heart Disease. , 2008, 52, 182-194.		29
38	Effect of <i>T'ai Chi Chuan</i> Training on Cardiovascular Risk Factors in Dyslipidemic Patients. Journal of Alternative and Complementary Medicine, 2008, 14, 813-819.	2.1	32
39	Changes of Aerobic Capacity, Fat Ratio and Flexibility in Older TCC Practitioners: A Five-Year Follow-Up. The American Journal of Chinese Medicine, 2008, 36, 1041-1050.	1.5	21
40	The Exercise Intensity of Tai Chi Chuan. , 2008, 52, 12-19.		77
41	Efficacy of a Home-Based Exercise Program for Orthotopic Heart Transplant Recipients. Cardiology, 2008, 111, 87-93.	0.6	38
42	Patient-driven loop control for hand function restoration in a non-invasive functional electrical stimulation system. Disability and Rehabilitation, 2008, 30, 1499-1505.	0.9	14
43	A Conceptual Persistent Healthcare Quality Improvement Process for Software Development Management. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3673-6.	0.5	0
44	A Unified Approach to Adoption of Laboratory LOIN in Taiwan. , 2007, , .		2
45	A Healthcare Pattern Collection for Rural Telemedicine Services. , 2006, , .		0
46	A VERSATILE LABVIEW-BASED TOOLBOX DESIGN AND MAN-MACHINE INTERFACE FOR THE ELECTRICAL STIMULATION SYSTEM. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 144-152.	0.3	5
47	RESIDUAL CAPABILITIES OF HEMIPLEGIC PATIENTS TO RESTORE HAND FUNCTIONS VIA A NON-INVASIVE FUNCTIONAL ELECTRICAL STIMULATION SYSTEM. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 255-263.	0.3	0
48	The M3S-based electric wheelchair for the people with disabilities in Taiwan. Disability and Rehabilitation, 2005, 27, 1471-1477.	0.9	1
49	Infrared-based communication augmentation system for people with multiple disabilities. Disability and Rehabilitation, 2004, 26, 1105-1109.	0.9	4
50	Relative Exercise Intensity of Tai Chi Chuan is Similar in Different Ages and Gender. The American Journal of Chinese Medicine, 2004, 32, 151-160.	1.5	62
51	The Aerobic Capacity and Ventilatory Efficiency During Exercise in Qigong and Tai Chi Chuan Practitioners. The American Journal of Chinese Medicine, 2004, 32, 141-150.	1.5	70
52	Neural network and fuzzy control in FES-assisted locomotion for the hemiplegic. Journal of Medical Engineering and Technology, 2004, 28, 32-38.	0.8	21
53	The comparison of electromyographic pattern classifications with active and passive electrodes. Medical Engineering and Physics, 2004, 26, 605-610.	0.8	15
54	Neuromuscular electric stimulation enhances endothelial vascular control and hemodynamic function in paretic upper extremities of patients with stroke. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1112-1116.	0.5	13

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55	Response of Taiwanese obese binge eaters to a hospital-based weight reduction program. <i>Journal of Psychosomatic Research</i> , 2004, 57, 279-285.	1.2	13
56	Evaluation of Rocker Sole by Pressure???Time Curves in Insensate Forefoot During Gait. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2004, 83, 500-506.	0.7	18
57	Poor functional recovery may indicate restenosis in patients after coronary angioplasty 11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the authors(s) or upon any organization with which the author(s) is/are associated.. <i>Archives of Physical Medicine and Rehabilitation</i> , 2003, 84, 1023-1027.	0.5	18
58	Application of SEMG in computer mouse access for the disabilities. <i>Disability and Rehabilitation</i> , 2003, 25, 218-223.	0.9	6
59	A head movement image (HMI)-controlled computer mouse for people with disabilitiesAnalysis of a time-out protocol and its applications in a single server environment. <i>Disability and Rehabilitation</i> , 2003, 25, 163-167.	0.9	40
60	SEMG-controlled telephone interface for people with disabilities. <i>Journal of Medical Engineering and Technology</i> , 2002, 26, 173-176.	0.8	7
61	The Cardiorespiratory Response and Energy Expenditure of Tai-Chi-Qui-Gong. <i>The American Journal of Chinese Medicine</i> , 2002, 30, 451-461.	1.5	45
62	Improvement of Cardiorespiratory Function After Percutaneous Transluminal Coronary Angioplasty or Coronary Artery Bypass Grafting. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2002, 81, 336-341.	0.7	27
63	Comparison of Pressure and Time Parameters in Evaluating Diabetic Footwear. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2002, 81, 822-829.	0.7	25
64	Spinal Cord Infarction Caused by Cardiac Tamponade. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2002, 81, 68-71.	0.7	11
65	Tai Chi Chuan. <i>Sports Medicine</i> , 2002, 32, 217-224.	3.1	171
66	Psychobehavioral response and weight loss prediction in a hospital-based weight reduction program. <i>Journal of the Formosan Medical Association</i> , 2002, 101, 705-11.	0.8	9
67	Energy expenditure of wheeling and walking during prosthetic rehabilitation in a woman with bilateral transfemoral amputations. <i>Archives of Physical Medicine and Rehabilitation</i> , 2001, 82, 265-269.	0.5	18
68	Heart Rate Responses and Oxygen Consumption during Tai Chi Chuan Practice. <i>The American Journal of Chinese Medicine</i> , 2001, 29, 403-410.	1.5	71
69	Decreased autonomic nervous system activity as assessed by heart rate variability in patients with chronic tetraplegia. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 1181-1184.	0.5	33
70	Tai Chi Chuan to improve muscular strength and endurance in elderly individuals: A pilot study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 604-607.	0.5	165
71	Strain measurements of rabbit achilles tendons by ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1999, 25, 1241-1250.	0.7	22
72	Isokinetic elbow joint torques estimation from surface EMG and joint kinematic data: using an artificial neural network model. <i>Journal of Electromyography and Kinesiology</i> , 1999, 9, 173-183.	0.7	99

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73	In-shoe pressure measurements with a viscoelastic heel orthosis. Archives of Physical Medicine and Rehabilitation, 1999, 80, 805-810.	0.5	7
74	The effect of Tai Chi on cardiorespiratory function in patients with coronary artery bypass surgery. Medicine and Science in Sports and Exercise, 1999, 31, 634-638.	0.2	119
75	12-month Tai Chi training in the elderly: its effect on health fitness. Medicine and Science in Sports and Exercise, 1998, 30, 345-351.	0.2	247
76	A neuro-control system for the knee joint position control with quadriceps stimulation. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1997, 5, 2-11.	1.4	96
77	The relation between standing balance and walking function in children with spastic diplegic cerebral palsy. Developmental Medicine and Child Neurology, 1997, 39, 106-112.	1.1	102
78	The effect of electrode arrangement on spectral distance measures for discrimination of EMG signals. IEEE Transactions on Biomedical Engineering, 1997, 44, 1020-1023.	2.5	8
79	SUBMAXIMAL OXYGEN PULSE DIVIDED BY BODY WEIGHT DURING INCREMENTAL EXERCISE TEST1. American Journal of Physical Medicine and Rehabilitation, 1997, 76, 297-303.	0.7	6
80	Optimization of walking in children. Medicine and Science in Sports and Exercise, 1997, 29, 370-376.	0.2	51
81	Cardiorespiratory function, flexibility, and body composition among geriatric Tai Chi Chuan practitioners. Archives of Physical Medicine and Rehabilitation, 1996, 77, 612-616.	0.5	179
82	The hypothalamus-pituitary-ovary and hypothalamus-pituitary-thyroid axes in spinal cord-injured women. Metabolism: Clinical and Experimental, 1996, 45, 718-722.	1.5	31
83	Real-time implementation of electromyogram pattern recognition as a control command of man-machine interface. Medical Engineering and Physics, 1996, 18, 529-537.	0.8	61
84	EXERCISE TEST IN ACUTE MYOCARDIAL INFARCTION1. American Journal of Physical Medicine and Rehabilitation, 1996, 75, 263-269.	0.7	3
85	Two-Year Trends in Cardiorespiratory Function Among Older Tai Chi Chuan Practitioners and Sedentary Subjects. Journal of the American Geriatrics Society, 1995, 43, 1222-1227.	1.3	147
86	The application of cepstral coefficients and maximum likelihood method in EMG pattern recognition [movements classification]. IEEE Transactions on Biomedical Engineering, 1995, 42, 777-785.	2.5	100
87	Cepstral coefficients as the new features for electromyography(EMG) pattern recognition. , 0, , .		2
88	Using time-frequency analysis technique in the classification of surface EMG signals. , 0, , .		5
89	Using time-varying autoregressive filter to improve EMG amplitude estimator. , 0, , .		1
90	A diagonal recurrent neural network based FES system for the knee joint position control. , 0, , .		0

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91	A head orientated electric wheelchair for people with disabilities. , 0, , .		1
92	A digital signal processor based functional electrical stimulation system with its user interface design. , 0, , .		2
93	Mobile hospital: healthcare for anybody in anytime and anywhere. , 0, , .		5
94	Development of the FES System with Neural Network+PID Controller for the Stroke. , 0, , .		8
95	A Healthcare Pattern Collection for Rural Telemedicine Services. , 0, , .		0
96	Understanding Discrepancy: A Conceptual Persistent Healthcare Quality Improvement Process for Software Development Management. , 0, , .		1