

Ian D Loram

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68
papers

2,934
citations

28
h-index

53
g-index

74
ext. papers

3,329
ext. citations

3.6
avg. IF

5.27
L-index

#	Paper	IF	Citations
68	Direct measurement of human ankle stiffness during quiet standing: the intrinsic mechanical stiffness is insufficient for stability. <i>Journal of Physiology</i> , 2002 , 545, 1041-53	3.9	334
67	Human balancing of an inverted pendulum: position control by small, ballistic-like, throw and catch movements. <i>Journal of Physiology</i> , 2002 , 540, 1111-24	3.9	220
66	Human postural sway results from frequent, ballistic bias impulses by soleus and gastrocnemius. <i>Journal of Physiology</i> , 2005 , 564, 295-311	3.9	220
65	Human control of an inverted pendulum: is continuous control necessary? Is intermittent control effective? Is intermittent control physiological?. <i>Journal of Physiology</i> , 2011 , 589, 307-24	3.9	170
64	Intermittent control: a computational theory of human control. <i>Biological Cybernetics</i> , 2011 , 104, 31-51	2.8	156
63	Active, non-spring-like muscle movements in human postural sway: how might paradoxical changes in muscle length be produced?. <i>Journal of Physiology</i> , 2005 , 564, 281-93	3.9	121
62	The proprioceptive and agonist roles of gastrocnemius, soleus and tibialis anterior muscles in maintaining human upright posture. <i>Journal of Physiology</i> , 2009 , 587, 2399-416	3.9	115
61	Paradoxical muscle movement in human standing. <i>Journal of Physiology</i> , 2004 , 556, 683-9	3.9	113
60	Use of ultrasound to make noninvasive in vivo measurement of continuous changes in human muscle contractile length. <i>Journal of Applied Physiology</i> , 2006 , 100, 1311-23	3.7	110
59	Human balancing of an inverted pendulum: is sway size controlled by ankle impedance?. <i>Journal of Physiology</i> , 2001 , 532, 879-91	3.9	101
58	Human balancing of an inverted pendulum with a compliant linkage: neural control by anticipatory intermittent bias. <i>Journal of Physiology</i> , 2003 , 551, 357-70	3.9	92
57	Postural activation of the human medial gastrocnemius muscle: are the muscle units spatially localised?. <i>Journal of Physiology</i> , 2011 , 589, 431-43	3.9	83
56	Changes in joint angle, muscle-tendon complex length, muscle contractile tissue displacement, and modulation of EMG activity during acute whole-body vibration. <i>Muscle and Nerve</i> , 2009 , 40, 420-9	3.4	77
55	The frequency of human, manual adjustments in balancing an inverted pendulum is constrained by intrinsic physiological factors. <i>Journal of Physiology</i> , 2006 , 577, 417-32	3.9	74
54	The passive, human calf muscles in relation to standing: the non-linear decrease from short range to long range stiffness. <i>Journal of Physiology</i> , 2007 , 584, 661-75	3.9	73
53	The passive, human calf muscles in relation to standing: the short range stiffness lies in the contractile component. <i>Journal of Physiology</i> , 2007 , 584, 677-92	3.9	60
52	Myoelectric activity along human gastrocnemius medialis: different spatial distributions of postural and electrically elicited surface potentials. <i>Journal of Electromyography and Kinesiology</i> , 2013 , 23, 43-50	2.5	52

51	Intermittent control models of human standing: similarities and differences. <i>Biological Cybernetics</i> , 2014 , 108, 159-68	2.8	49
50	Visual control of stable and unstable loads: what is the feedback delay and extent of linear time-invariant control?. <i>Journal of Physiology</i> , 2009 , 587, 1343-65	3.9	46
49	Recruitment of motor units in the medial gastrocnemius muscle during human quiet standing: is recruitment intermittent? What triggers recruitment?. <i>Journal of Neurophysiology</i> , 2012 , 107, 666-76	3.2	44
48	Automated regional analysis of B-mode ultrasound images of skeletal muscle movement. <i>Journal of Applied Physiology</i> , 2012 , 112, 313-27	3.7	41
47	The consequences of short-range stiffness and fluctuating muscle activity for proprioception of postural joint rotations: the relevance to human standing. <i>Journal of Neurophysiology</i> , 2009 , 102, 460-74 ^{3.2}	3.2	40
46	Estimating skeletal muscle fascicle curvature from B-mode ultrasound image sequences. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 1935-45	5	34
45	Manually controlled human balancing using visual, vestibular and proprioceptive senses involves a common, low frequency neural process. <i>Journal of Physiology</i> , 2006 , 577, 403-16	3.9	33
44	Identification of intermittent control in man and machine. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 2070-84	4.1	32
43	Cautious gait in relation to knowledge and vision of height: is altered visual information the dominant influence?. <i>Journal of Neurophysiology</i> , 2012 , 107, 2686-91	3.2	31
42	Paradoxical muscle movement during postural control. <i>Medicine and Science in Sports and Exercise</i> , 2009 , 41, 198-204	1.2	29
41	A novel system of electrodes transparent to ultrasound for simultaneous detection of myoelectric activity and B-mode ultrasound images of skeletal muscles. <i>Journal of Applied Physiology</i> , 2013 , 115, 1203-14	3.7	28
40	Predictive feedback in human simulated pendulum balancing. <i>Biological Cybernetics</i> , 2009 , 101, 131-46	2.8	28
39	Refractoriness in sustained visuo-manual control: is the refractory duration intrinsic or does it depend on external system properties?. <i>PLoS Computational Biology</i> , 2013 , 9, e1002843	5	28
38	Real-Time Ultrasound Segmentation, Analysis and Visualisation of Deep Cervical Muscle Structure. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 653-665	11.7	23
37	Does the motor system need intermittent control?. <i>Exercise and Sport Sciences Reviews</i> , 2014 , 42, 117-256.7		23
36	Estimating Full Regional Skeletal Muscle Fibre Orientation from B-Mode Ultrasound Images Using Convolutional, Residual, and Deconvolutional Neural Networks. <i>Journal of Imaging</i> , 2018 , 4, 29	3.1	21
35	An evaluation of 3D head pose estimation using the Microsoft Kinect v2. <i>Gait and Posture</i> , 2016 , 48, 83-88.6		18
34	Ultrasound-Based Detection of Fasciculations in Healthy and Diseased Muscles. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 512-8	5	18

33	Human standing: does the control strategy preprogram a rigid knee?. <i>Journal of Applied Physiology</i> , 2013 , 114, 1717-29	3.7	18
32	Postural threat differentially affects the feedforward and feedback components of the vestibular-evoked balance response. <i>European Journal of Neuroscience</i> , 2013 , 38, 3239-47	3.5	17
31	Predictive feedback control and Fitts' Law. <i>Biological Cybernetics</i> , 2008 , 98, 229-38	2.8	17
30	Effects of attentional focus on walking stability in elderly. <i>Gait and Posture</i> , 2017 , 55, 94-99	2.6	13
29	Frequency-domain identification of the human controller. <i>Biological Cybernetics</i> , 2012 , 106, 359-72	2.8	13
28	Proactive Selective Inhibition Targeted at the Neck Muscles: This Proximal Constraint Facilitates Learning and Regulates Global Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 357-369	4.8	12
27	A semi-automated programme for tracking myoblast migration following mechanical damage: manipulation by chemical inhibitors. <i>Cellular Physiology and Biochemistry</i> , 2011 , 27, 625-36	3.9	10
26	Visuo-manual tracking: does intermittent control with aperiodic sampling explain linear power and non-linear remnant without sensorimotor noise?. <i>Journal of Physiology</i> , 2017 , 595, 6751-6770	3.9	9
25	A video based method to quantify posture of the head and trunk in sitting. <i>Gait and Posture</i> , 2017 , 51, 181-187	2.6	9
24	Foreground Detection Analysis of Ultrasound Image Sequences Identifies Markers of Motor Neurone Disease across Diagnostically Relevant Skeletal Muscles. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 1164-1175	3.5	7
23	Wavelet-frequency analysis for the detection of discontinuities in switched system models of human balance. <i>Human Movement Science</i> , 2017 , 51, 27-40	2.4	7
22	Estimation of absolute states of human skeletal muscle via standard B-mode ultrasound imaging and deep convolutional neural networks. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190715	4.1	6
21	Interfacing sensory input with motor output: does the control architecture converge to a serial process along a single channel?. <i>Frontiers in Computational Neuroscience</i> , 2013 , 7, 55	3.5	6
20	Objective Analysis of Neck Muscle Boundaries for Cervical Dystonia Using Ultrasound Imaging and Deep Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 1016-1027	7.2	6
19	Crosstalk opposing view: Fear of falling does not influence vestibular-evoked balance responses. <i>Journal of Physiology</i> , 2015 , 593, 2983-4	3.9	5
18	The Application of Deep Convolutional Neural Networks to Ultrasound for Modelling of Dynamic States within Human Skeletal Muscle		5
17	Force accuracy rather than high stiffness is associated with faster learning and reduced falls in human balance. <i>Scientific Reports</i> , 2020 , 10, 4953	4.9	4
16	Intermittent control of unstable multivariate systems. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1436-9	0.9	4

15	Deep Residual Networks for Quantification of Muscle Fiber Orientation and Curvature from Ultrasound Images. <i>Communications in Computer and Information Science</i> , 2017 , 63-73	0.3	4
14	Fully automated image-based estimation of postural point-features in children with cerebral palsy using deep learning. <i>Royal Society Open Science</i> , 2019 , 6, 191011	3.3	4
13	Auto-regressive moving average analysis of linear and discontinuous models of human balance during quiet standing. <i>Chaos</i> , 2014 , 24, 022101	3.3	3
12	Ultrasound Segmentation of Cervical Muscle during head motion: a Dataset and a Benchmark using Deconvolutional Neural Networks		3
11	Working towards an objective segmental assessment of trunk control in children with cerebral palsy. <i>Gait and Posture</i> , 2018 , 65, 45-50	2.6	3
10	The effect of fear of falling on vestibular feedback control of balance. <i>Physiological Reports</i> , 2017 , 5, e13391	2.6	2
9	Complexity and dynamics of switched human balance control during quiet standing. <i>Biological Cybernetics</i> , 2015 , 109, 469-78	2.8	2
8	Reply from Ian D. Loram, Constantinos N. Maganaris and Martin Lakie. <i>Journal of Physiology</i> , 2005 , 569, 706-706	3.9	2
7	The potential of an automated system to identify the upper limb component of a controlled sitting posture. <i>Gait and Posture</i> , 2017 , 58, 223-228	2.6	1
6	Rebuttal from Raymond Reynolds, Callum Osler, Linda Tersteeg and Ian Loram. <i>Journal of Physiology</i> , 2015 , 593, 2987	3.9	1
5	2011 ,		1
4	Intermittent Control of Movement and Balance 2020 , 1-6		1
3	Effect of motor and sensory noise in the control of upright standing. <i>Progress in Brain Research</i> , 2019 , 248, 319-327	2.9	0
2	The development of a video retrieval system using a clinician-led approach. <i>Expert Systems With Applications</i> , 2020 , 142, 112992	7.8	
1	Intermittent Control of Movement and Balance 2022 , 1689-1694		