Elliot Saltzman

List of Publications by Year
in descending order

54 papers	4,227 citations	185998 28 h-index	214527 47 g-index
58 all docs	58 docs citations	58 times ranked	2547 citing authors

#	Article	IF	Citations
1	Skilled actions: A task-dynamic approach.. Psychological Review, 1987, 94, 84-106.	2.7	613
2	Levels of sensorimotor representation. Journal of Mathematical Psychology, 1979, 20, 91-163.	1.0	525
3	Action Representation of Sound: Audiomotor Recognition Network While Listening to Newly Acquired Actions. Journal of Neuroscience, 2007, 27, 308-314.	1.7	516
4	The elastic phrase: modeling the dynamics of boundary-adjacent lengthening. Journal of Phonetics, 2003, 31, 149-180.	0.6	226
5	Coordination and Coarticulation in Speech Production. Language and Speech, 1993, 36, 171-195.	0.6	205
6	The development of rulebound strategies for manipulating seriated cups: A parallel between action and grammar. Cognitive Psychology, 1972, 3, 291-310.	0.9	195
7	Dynamic action units slip in speech production errors. Cognition, 2007, 103, 386-412.	1.1	179
8	Intragestural dynamics of multiple prosodic boundaries. Journal of Phonetics, 1998, 26, 173-199.	0.6	153
9	The role of vocal tract gestural action units in understanding the evolution of phonology. , 2006, , 215-249.		134
10	A Tutorial on Multifractality, Cascades, and Interactivity for Empirical Time Series in Ecological Science. Ecological Psychology, 2013, 25, 1-62.	0.7	113
11	Task-dynamics of gestural timing: Phase windows and multifrequency rhythms. Human Movement Science, 2000, 19, 499-526.	0.6	94
12	Self-organization of syllable structure: a coupled oscillator model. , 2009, , 297-328.		91
13	Hybrid convolutional neural networks for articulatory and acoustic information based speech recognition. Speech Communication, 2017, 89, 103-112.	1.6	67
14	Dynamic Resources Used in Ambulation by Children With Spastic Hemiplegic Cerebral Palsy: Relationship to Kinematics, Energetics, and Asymmetries. Physical Therapy, 2004, 84, 344-354.	1.1	63
15	Accurate recovery of articulator positions from acoustics: New conclusions based on human data. Journal of the Acoustical Society of America, 1996, 100, 1819-1834.	0.5	61
16	Self-organized complementary joint action: Behavioral dynamics of an interpersonal collision-avoidance task.. Journal of Experimental Psychology: Human Perception and Performance, 2015, 41, 665-679.	0.7	58
17	Articulatory Information for Noise Robust Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1913-1924.	3.8	52
18	Herd Those Sheep: Emergent Multiagent Coordination and Behavioral-Mode Switching. Psychological Science, 2017, 28, 630-650.	1.8	52

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19	Changes in axial stiffness of the trunk as a function of walking speed. Journal of Biomechanics, 2006, 39, 750-757.	0.9	50
20	A dynamical model of locomotion in spastic hemiplegic cerebral palsy: influence of walking speed. Clinical Biomechanics, 2001, 16, 793-805.	0.5	49
21	Retrieving Tract Variables From Acoustics: A Comparison of Different Machine Learning Strategies. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 1027-1045.	7.3	44
22	Effects of Optic Flow Speed and Lateral Flow Asymmetry on Locomotion in Younger and Older Adults: A Virtual Reality Study. Journals of Gerontology - Series B Psychological Sciences and Social Sciences, 2009, 64B, 222-231.	2.4	43
23	Functional Electrical Stimulation Changes Dynamic Resources in Children With Spastic Cerebral Palsy. Physical Therapy, 2006, 86, 987-1000.	1.1	38
24	Human social motor solutions for human–machine interaction in dynamical task contexts. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1437-1446.	3.3	38
25	The Power of Listening: Auditory-Motor Interactions in Musical Training. Annals of the New York Academy of Sciences, 2005, 1060, 189-194.	1.8	35
26	Bio-Inspired Design of Soft Robotic Assistive Devices: The Interface of Physics, Biology, and Behavior. Ecological Psychology, 2012, 24, 300-327.	0.7	35
27	Bridging planning and execution: Temporal planning of syllables. Journal of Phonetics, 2012, 40, 374-389.	0.6	33
28	Visuospatial perception and navigation in Parkinson's disease. Vision Research, 2010, 50, 2495-2504.	0.7	31
29	A Dynamic Systems: constraints approach to rehabilitation. Brazilian Journal of Physical Therapy, 2010, 14, 446-463.	1.1	31
30	Orthoses posted in both the forefoot and rearfoot reduce moments and angular impulses on lower extremity joints during walking. Journal of Biomechanics, 2014, 47, 2618-2625.	0.9	30
31	Discovery of the Pendulum and Spring Dynamics in the Early Stages of Walking. Journal of Motor Behavior, 2006, 38, 206-218.	0.5	29
32	Forefoot angle determines duration and amplitude of pronation during walking. Gait and Posture, 2013, 38, 8-13.	0.6	27
33	A procedure for estimating gestural scores from speech acoustics. Journal of the Acoustical Society of America, 2012, 132, 3980-3989.	0.5	24
34	Center of mass trajectory and orientation to ankle and knee in sagittal plane is maintained with forward lean when backpack load changes during treadmill walking. Journal of Biomechanics, 2013, 46, 70-76.	0.9	21
35	Recognizing articulatory gestures from speech for robust speech recognition. Journal of the Acoustical Society of America, 2012, 131, 2270-2287.	0.5	19
36	A Camera-Based Music-Making Tool for Physical Rehabilitation. Computer Music Journal, 2007, 31, 39-53.	0.3	17

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37	A Graph-Dynamic Perspective on Coordinative Structures, the Role of Affordance-Effectivity Relations in Action Selection, and the Self-Organization of Complex Activities. Ecological Psychology, 2015, 27, 300-309.	0.7	17
38	Scaling of Dynamics in the Earliest Stages of Walking. Physical Therapy, 2007, 87, 1458-1467.	1.1	16
39	The Distinctions Between State, Parameter and Graph Dynamics in Sensorimotor Control and Coordination. , 2006, , 63-73.		16
40	Musculoskeletal stiffness changes linearly in response to increasing load during walking gait. Journal of Biomechanics, 2015, 48, 1165-1171.	0.9	15
41	Improved motor sequence retention by motionless listening. Psychological Research, 2013, 77, 310-319.	1.0	12
42	Seeing what you hear: Visual feedback improves pitch recognition. European Journal of Cognitive Psychology, 2010, 22, 1078-1091.	1.3	11
43	Forefoot angle at initial contact determines the amplitude of forefoot and rearfoot eversion during running. Clinical Biomechanics, 2014, 29, 936-942.	0.5	11
44	Articulatory phonological code for word classification. , 0, , .		10
45	Task dynamics define the contextual emergence of human corralling behaviors. PLoS ONE, 2021, 16, e0260046.	1.1	10
46	Modeling Embedded Interpersonal and Multiagent Coordination. , 2016, , .		9
47	Veering in hemi-Parkinson's disease: Primacy of visual over motor contributions. Vision Research, 2015, 115, 119-127.	0.7	8
48	Robust word recognition using articulatory trajectories and gestures. , 0, , .		8
49	Movement Forms: A Graph-Dynamic Perspective. Ecological Psychology, 2014, 26, 60-68.	0.7	7
50	A procedure for estimating gestural scores from natural speech. , 0, , .		6
51	Practical Applications of Multiagent Shepherding for Human-Machine Interaction. Lecture Notes in Computer Science, 2019, , 168-179.	1.0	4
52	Estimation of articulatory gesture patterns from speech acoustics. , 0, , .		3
53	Is failed predictive control a risk factor for focal dystonia?. Movement Disorders, 2016, 31, 1772-1776.	2.2	1
54	8. Speech inversion using naturally spoken data. , 2018, , 243-276.		0