

Elisa Magosso

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,052
citations

218677

26
h-index

289244

40
g-index

92
all docs

92
docs citations

92
times ranked

1663
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Sounds Capture the Boundaries of Peripersonal Space Representation in Humans. PLoS ONE, 2012, 7, e44306.	2.5	171
2	Role of short-term cardiovascular regulation in heart period variability: a modeling study. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1479-H1493.	3.2	115
3	Acute cardiovascular response to isocapnic hypoxia. I. A mathematical model. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H149-H165.	3.2	105
4	Interpretable and lightweight convolutional neural network for EEG decoding: Application to movement execution and imagination. Neural Networks, 2020, 129, 55-74.	5.9	70
5	Transfer Entropy as a Measure of Brain Connectivity: A Critical Analysis With the Help of Neural Mass Models. Frontiers in Computational Neuroscience, 2020, 14, 45.	2.1	68
6	Extending peripersonal space representation without tool-use: evidence from a combined behavioral-computational approach. Frontiers in Behavioral Neuroscience, 2015, 9, 4.	2.0	65
7	EEG Alpha Power Is Modulated by Attentional Changes during Cognitive Tasks and Virtual Reality Immersion. Computational Intelligence and Neuroscience, 2019, 2019, 1-18.	1.7	65
8	An integrated model of the human ventilatory control system: the response to hypercapnia. Clinical Physiology, 2001, 21, 447-464.	0.7	60
9	A wavelet-based energetic approach for the analysis of biomedical signals: Application to the electroencephalogram and electro-oculogram. Applied Mathematics and Computation, 2009, 207, 42-62.	2.2	58
10	Neurocomputational approaches to modelling multisensory integration in the brain: A review. Neural Networks, 2014, 60, 141-165.	5.9	54
11	Theoretical analysis of rest and exercise hemodynamics in patients with total cavopulmonary connection. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1018-H1034.	3.2	50
12	Neural bases of peri-hand space plasticity through tool-use: Insights from a combined computational and experimental approach. Neuropsychologia, 2010, 48, 812-830.	1.6	48
13	A mathematical model of CO ₂ effect on cardiovascular regulation. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2036-H2052.	3.2	46
14	Mathematical modeling of cardiovascular coupling: Central autonomic commands and baroreflex control. Autonomic Neuroscience: Basic and Clinical, 2011, 162, 66-71.	2.8	44
15	Visuotactile Representation of Peripersonal Space: A Neural Network Study. Neural Computation, 2010, 22, 190-243.	2.2	40
16	Recognition of Abstract Objects Via Neural Oscillators: Interaction Among Topological Organization, Associative Memory and Gamma Band Synchronization. IEEE Transactions on Neural Networks, 2009, 20, 316-335.	4.2	39
17	An emergent model of multisensory integration in superior colliculus neurons. Frontiers in Integrative Neuroscience, 2010, 4, 6.	2.1	39
18	A biologically inspired neurocomputational model for audiovisual integration and causal inference. European Journal of Neuroscience, 2017, 46, 2481-2498.	2.6	38

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19	An integrated model of the human ventilatory control system: the response to hypoxia. <i>Clinical Physiology</i> , 2001, 21, 465-477.	0.7	35
20	A wavelet based method for automatic detection of slow eye movements: A pilot study. <i>Medical Engineering and Physics</i> , 2006, 28, 860-875.	1.7	35
21	SHORT-TERM AUTONOMIC CONTROL OF CARDIOVASCULAR FUNCTION: A MINI-REVIEW WITH THE HELP OF MATHEMATICAL MODELS. <i>Journal of Integrative Neuroscience</i> , 2003, 02, 219-247.	1.7	34
22	Multisensory integration in the superior colliculus: a neural network model. <i>Journal of Computational Neuroscience</i> , 2009, 26, 55-73.	1.0	34
23	A theoretical study of multisensory integration in the superior colliculus by a neural network model. <i>Neural Networks</i> , 2008, 21, 817-829.	5.9	32
24	Hebbian mechanisms help explain development of multisensory integration in the superior colliculus: a neural network model. <i>Biological Cybernetics</i> , 2012, 106, 691-713.	1.3	31
25	Neural adaptation accounts for the dynamic resizing of peripersonal space: evidence from a psychophysical-computational approach. <i>Journal of Neurophysiology</i> , 2018, 119, 2307-2333.	1.8	31
26	A Neural Network Model of Ventriloquism Effect and Aftereffect. <i>PLoS ONE</i> , 2012, 7, e42503.	2.5	29
27	A neurocomputational analysis of the sound-induced flash illusion. <i>NeuroImage</i> , 2014, 92, 248-266.	4.2	28
28	Rapid Recalibration of Peri-Personal Space: Psychophysical, Electrophysiological, and Neural Network Modeling Evidence. <i>Cerebral Cortex</i> , 2020, 30, 5088-5106.	2.9	28
29	Role of the Baroreflex in Cardiovascular Instability: A Modeling Study. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , 2001, 1, 101-115.	1.0	25
30	A computational study of multisensory maturation in the superior colliculus (SC). <i>Experimental Brain Research</i> , 2011, 213, 341-349.	1.5	25
31	Role of Tissue Hypoxia in Cerebrovascular Regulation: A Mathematical Modeling Study. <i>Annals of Biomedical Engineering</i> , 2001, 29, 563-574.	2.5	23
32	Alpha and theta mechanisms operating in internal-external attention competition. <i>Journal of Integrative Neuroscience</i> , 2021, 20, 1.	1.7	22
33	Multisensory Bayesian Inference Depends on Synapse Maturation during Training: Theoretical Analysis and Neural Modeling Implementation. <i>Neural Computation</i> , 2017, 29, 735-782.	2.2	20
34	Acute cardiovascular response to isocapnic hypoxia. II. Model validation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H166-H175.	3.2	19
35	A Modeling Study of Bilirubin Kinetics During Molecular Adsorbent Recirculating System Sessions. <i>Artificial Organs</i> , 2006, 30, 285-300.	1.9	19
36	Wavelet Analysis of Electroencephalographic and Electro-Oculographic Changes During the Sleep Onset Period. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 4006-10.	0.5	19

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37	A neural network for learning the meaning of objects and words from a featural representation. <i>Neural Networks</i> , 2015, 63, 234-253.	5.9	17
38	A theoretical analysis of the carotid body chemoreceptor response to O ₂ and CO ₂ pressure changes. <i>Respiratory Physiology and Neurobiology</i> , 2002, 130, 99-110.	1.6	16
39	A Computational Analysis of Neural Mechanisms Underlying the Maturation of Multisensory Speech Integration in Neurotypical Children and Those on the Autism Spectrum. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 518.	2.0	16
40	Slow eye movements distribution during nocturnal sleep. <i>Clinical Neurophysiology</i> , 2011, 122, 1556-1561.	1.5	15
41	Development of a Bayesian Estimator for Audio-Visual Integration: A Neurocomputational Study. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 89.	2.1	15
42	The Directionality of Fronto-Posterior Brain Connectivity Is Associated with the Degree of Individual Autistic Traits. <i>Brain Sciences</i> , 2021, 11, 1443.	2.3	15
43	Integrating Information From Vision and Touch: A Neural Network Modeling Study. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 598-612.	3.2	14
44	A Lightweight Multi-Scale Convolutional Neural Network for P300 Decoding: Analysis of Training Strategies and Uncovering of Network Decision. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 655840.	2.0	14
45	Automatic slow eye movement (SEM) detection of sleep onset in patients with obstructive sleep apnea syndrome (OSAS): Comparison between multiple sleep latency test (MSLT) and maintenance of wakefulness test (MWT). <i>Sleep Medicine</i> , 2010, 11, 253-257.	1.6	13
46	An integrated neural model of semantic memory, lexical retrieval and category formation, based on a distributed feature representation. <i>Cognitive Neurodynamics</i> , 2011, 5, 183-207.	4.0	13
47	Crossmodal Links between Vision and Touch in Spatial Attention: A Computational Modelling Study. <i>Computational Intelligence and Neuroscience</i> , 2010, 2010, 1-13.	1.7	12
48	Organization, Maturation, and Plasticity of Multisensory Integration: Insights from Computational Modeling Studies. <i>Frontiers in Psychology</i> , 2011, 2, 77.	2.1	12
49	Convolutional Neural Network for a P300 Brain-Computer Interface to Improve Social Attention in Autistic Spectrum Disorder. <i>IFMBE Proceedings</i> , 2020, , 1837-1843.	0.3	12
50	A Computational Model of the Lexical-Semantic System Based on a Grounded Cognition Approach. <i>Frontiers in Psychology</i> , 2010, 1, 221.	2.1	11
51	An improved algorithm for the automatic detection and characterization of slow eye movements. <i>Medical Engineering and Physics</i> , 2014, 36, 954-961.	1.7	11
52	From statistical regularities in multisensory inputs to peripersonal space representation and body ownership: Insights from a neural network model. <i>European Journal of Neuroscience</i> , 2021, 53, 611-636.	2.6	11
53	Deep learning-based EEG analysis: investigating P3 ERP components. <i>Journal of Integrative Neuroscience</i> , 2021, 20, 791-811.	1.7	11
54	Opioid-Induced Respiratory Depression: A Mathematical Model for Fentanyl. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1115-1128.	4.2	10

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55	Interaction Among Humoral and Neurogenic Mechanisms in Ventilation Control During Exercise. <i>Annals of Biomedical Engineering</i> , 2004, 32, 1286-1299.	2.5	10
56	Effect of cushioning response on systemic arterial pressure. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2009, 28, 63-71.	0.8	10
57	Detection of sleep onset by analysis of slow eye movements: A preliminary study of MSLT recordings. <i>Sleep Medicine</i> , 2009, 10, 637-640.	1.6	10
58	Learning the lexical aspects of a second language at different proficiencies: A neural computational study. <i>Bilingualism</i> , 2013, 16, 266-287.	1.3	9
59	Modulation of brain alpha rhythm and heart rate variability by attention-related mechanisms. <i>AIMS Neuroscience</i> , 2019, 6, 1-24.	2.3	9
60	A Neural Network Model Can Explain Ventriloquism Aftereffect and Its Generalization across Sound Frequencies. <i>BioMed Research International</i> , 2013, 2013, 1-17.	1.9	8
61	The Relationship between Oscillations in Brain Regions and Functional Connectivity: A Critical Analysis with the Aid of Neural Mass Models. <i>Brain Sciences</i> , 2021, 11, 487.	2.3	8
62	Mathematical modeling and parameter estimation of levodopa motor response in patients with parkinson disease. <i>PLoS ONE</i> , 2020, 15, e0229729.	2.5	7
63	Decoding sensorimotor information from superior parietal lobule of macaque via Convolutional Neural Networks. <i>Neural Networks</i> , 2022, 151, 276-294.	5.9	7
64	Object segmentation and recovery via neural oscillators implementing the similarity and prior knowledge gestalt rules. <i>BioSystems</i> , 2006, 85, 201-218.	2.0	6
65	Audiovisual Rehabilitation in Hemianopia: A Model-Based Theoretical Investigation. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 113.	2.1	6
66	Relationship between electroencephalographic data and comfort perception captured in a Virtual Reality design environment of an aircraft cabin. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
67	A Neural Network Model of Multisensory Representation of Peripersonal Space: Effect of tool use. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 2735-9.	0.5	5
68	Possible mechanisms underlying tilt aftereffect in the primary visual cortex: A critical analysis with the aid of simple computational models. <i>Vision Research</i> , 2008, 48, 1456-1470.	1.4	5
69	The baroreflex contribution to spontaneous heart rhythm assessed with a mathematical model in rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008, 138, 24-30.	2.8	5
70	Cross-sensory inhibition or unisensory facilitation: A potential neural architecture of modality switch effects. <i>Journal of Mathematical Psychology</i> , 2020, 99, 102438.	1.8	5
71	A Novel Method to Assess Motor Cortex Connectivity and Event Related Desynchronization Based on Mass Models. <i>Brain Sciences</i> , 2021, 11, 1479.	2.3	5
72	The formation of categories and the representation of feature saliency: Analysis with a computational model trained with an Hebbian paradigm. <i>Journal of Integrative Neuroscience</i> , 2013, 12, 401-425.	1.7	4

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73	Event-related brain potential signaling unexpected timing of feedback: A source localization analysis. , 2015, 2015, 618-21.		4
74	Audiovisual integration in hemianopia: A neurocomputational account based on cortico-collicular interaction. Neuropsychologia, 2016, 91, 120-140.	1.6	4
75	Explaining the Effect of Likelihood Manipulation and Prior Through a Neural Network of the Audiovisual Perception of Space. Multisensory Research, 2019, 32, 111-144.	1.1	4
76	EEG Motor Execution Decoding via Interpretable Sinc-Convolutional Neural Networks. IFMBE Proceedings, 2020, , 1113-1122.	0.3	4
77	Sensory fusion: A neurocomputational approach. , 2016, , .		2
78	Multisensory perceptual awareness: Categorical or graded?. Cortex, 2019, 120, 169-180.	2.4	2
79	A neural network model of peri-hand space representation and its plastic properties related to tool use. , 2008, , .		1
80	A Semantic Model to Study Neural Organization of Language in Bilingualism. Computational Intelligence and Neuroscience, 2010, 2010, 1-10.	1.7	1
81	Sensory Fusion. , 2011, , 23-62.		1
82	Modulation of EEG Theta and Alpha Power by an Internal Attention Task with and Without Visual Distractors. IFMBE Proceedings, 2020, , 1105-1112.	0.3	1
83	The Representation of Objects in the Brain, and Its Link with Semantic Memory and Language: a Conceptual Theory with the Support of a Neurocomputational Model. , 2010, , .		0
84	Mathematical Models for Computational Neuroscience. , 2014, , 311-332.		0
85	A Neural Network Model of Peripersonal Space Representation Around Different Body Parts. IFMBE Proceedings, 2018, , 217-220.	0.3	0
86	Neural Networks and Connectivity among Brain Regions. Brain Sciences, 2022, 12, 346.	2.3	0
87	Title is missing!. , 2020, 15, e0229729.		0
88	Title is missing!. , 2020, 15, e0229729.		0
89	Title is missing!. , 2020, 15, e0229729.		0
90	Title is missing!. , 2020, 15, e0229729.		0