

Luigi Bianchi

List of Publications by Year in descending order

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74
papers

3,301
citations

218677

26
h-index

182427

51
g-index

76
all docs

76
docs citations

76
times ranked

3426
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical Networks for Visual Reaching: Physiological and Anatomical Organization of Frontal and Parietal Lobe Arm Regions. <i>Cerebral Cortex</i> , 1996, 6, 102-119.	2.9	703
2	Motor Patterns for Human Gait: Backward Versus Forward Locomotion. <i>Journal of Neurophysiology</i> , 1998, 80, 1868-1885.	1.8	288
3	Optimizing the P300-based brain-computer interface: current status, limitations and future directions. <i>Journal of Neural Engineering</i> , 2011, 8, 025003.	3.5	154
4	Kinematic Coordination in Human Gait: Relation to Mechanical Energy Cost. <i>Journal of Neurophysiology</i> , 1998, 79, 2155-2170.	1.8	152
5	Linear classification of low-resolution EEG patterns produced by imagined hand movements. <i>IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society</i> , 2000, 8, 186-188.	1.4	133
6	Tools for brain-computer interaction: a general concept for a hybrid BCI. <i>Frontiers in Neuroinformatics</i> , 2011, 5, 30.	2.5	121
7	Combination of Hand and Gaze Signals During Reaching: Activity in Parietal Area 7m of the Monkey. <i>Journal of Neurophysiology</i> , 1997, 77, 1034-1038.	1.8	114
8	Neural Basis for Brain Responses to TV Commercials: A High-Resolution EEG Study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 522-531.	4.9	100
9	Hypermethods for EEG hyperscanning. , 2006, 2006, 3666-9.		99
10	High-resolution EEG techniques for brain-computer interface applications. <i>Journal of Neuroscience Methods</i> , 2008, 167, 31-42.	2.5	98
11	Current trends in hardware and software for brain-computer interfaces (BCIs). <i>Journal of Neural Engineering</i> , 2011, 8, 025001.	3.5	91
12	Individual characteristics of human walking mechanics. <i>Pflugers Archiv European Journal of Physiology</i> , 1998, 436, 343-356.	2.8	87
13	Which Physiological Components are More Suitable for Visual ERP Based Brain-Computer Interface? A Preliminary MEG/EEG Study. <i>Brain Topography</i> , 2010, 23, 180-185.	1.8	85
14	On ERPs detection in disorders of consciousness rehabilitation. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 775.	2.0	79
15	Workload measurement in a communication application operated through a P300-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2011, 8, 025028.	3.5	77
16	Quantitative EEG and dynamic susceptibility contrast MRI in Alzheimer's disease: a correlative study. <i>Clinical Neurophysiology</i> , 2003, 114, 1210-1216.	1.5	76
17	Performance measurement for brain-computer or brain-machine interfaces: a tutorial. <i>Journal of Neural Engineering</i> , 2014, 11, 035001.	3.5	71
18	High Resolution EEG Hyperscanning During a Card Game. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 4957-60.	0.5	61

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19	The use of EEG modifications due to motor imagery for brain-computer interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 131-133.	4.9	60
20	Movement Detection of Human Body Segments: Passive radio-frequency identification and machine-learning technologies. IEEE Antennas and Propagation Magazine, 2015, 57, 23-37.	1.4	57
21	Performances Evaluation and Optimization of Brain Computer Interface Systems in a Copy Spelling Task. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 207-216.	4.9	52
22	An independent component analysis-based approach on ballistocardiogram artifact removing. Magnetic Resonance Imaging, 2006, 24, 393-400.	1.8	50
23	Recognition of imagined hand movements with low resolution surface Laplacian and linear classifiers. Medical Engineering and Physics, 2001, 23, 323-328.	1.7	48
24	Topiramate: effect on EEG interictal abnormalities and background activity in patients affected by focal epilepsy. Epilepsy Research, 2004, 58, 43-52.	1.6	33
25	Simultaneous EEG-fMRI acquisition: how far is it from being a standardized technique?. Magnetic Resonance Imaging, 2004, 22, 1445-1455.	1.8	32
26	Describing Different Brain Computer Interface Systems Through a Unique Model: A UML Implementation. Neuroinformatics, 2008, 6, 81-96.	2.8	28
27	Brain activity during the memorization of visual scenes from TV commercials: An application of high resolution EEG and steady state somatosensory evoked potentials technologies. Journal of Physiology (Paris), 2009, 103, 333-341.	2.1	28
28	The Track of Brain Activity during the Observation of TV Commercials with the High-Resolution EEG Technology. Computational Intelligence and Neuroscience, 2009, 2009, 1-7.	1.7	23
29	A Fuzzy Integral Ensemble Method in Visual P300 Brain-Computer Interface. Computational Intelligence and Neuroscience, 2016, 2016, 1-9.	1.7	23
30	The study of brain activity during the observation of commercial advertising by using high resolution EEG techniques. , 2009, 2009, 57-60.		17
31	EEG Analysis of the Brain Activity during the Observation of Commercial, Political, or Public Service Announcements. Computational Intelligence and Neuroscience, 2010, 2010, 1-7.	1.7	16
32	Cognitive Processing in Non-Communicative Patients: What Can Event-Related Potentials Tell Us?. Frontiers in Human Neuroscience, 2016, 10, 569.	2.0	16
33	Developing wearable bio-feedback systems: a general-purpose platform. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 1-3.	4.9	15
34	Single-epoch analysis of interleaved evoked potentials and fMRI responses during steady-state visual stimulation. Clinical Neurophysiology, 2009, 120, 738-747.	1.5	15
35	BCI meeting 2005-workshop on technology: hardware and software. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 128-131.	4.9	14
36	How the NPX data format handles EEG data acquired simultaneously with fMRI. Magnetic Resonance Imaging, 2007, 25, 1011-1014.	1.8	14

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37	Advanced brain computer interface for communication and control. , 2010, , .		14
38	Evaluation of the performances of different P300 based brain-computer interfaces by means of the efficiency metric. Journal of Neuroscience Methods, 2012, 203, 361-368.	2.5	14
39	Special Report on the Impact of the COVID-19 Pandemic on Clinical EEG and Research and Consensus Recommendations for the Safe Use of EEG. Clinical EEG and Neuroscience, 2021, 52, 3-28.	1.7	13
40	In Vitro Analysis of Pyrogenicity and Cytotoxicity Profiles of Flex Sensors to be Used to Sense Human Joint Postures. Sensors, 2014, 14, 11672-11681.	3.8	12
41	A Functional Model for Unifying Brain Computer Interface Terminology. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 91-96.	2.3	12
42	Combined passive radiofrequency identification and machine learning technique to recognize human motion. , 2014, , .		7
43	Improving P300 Speller performance by means of optimization and machine learning. Annals of Operations Research, 2022, 312, 1221-1259.	4.1	7
44	Introducing NPXLab 2010: A tool for the analysis and optimization of P300 based brain-computer interfaces. , 2009, , .		6
45	Patterns of cortical activity during the observation of Public Service Announcements and commercial advertisings. Nonlinear Biomedical Physics, 2010, 4, S3.	1.5	6
46	A New Early Stopping Method for P300 Spellers. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1635-1643.	4.9	6
47	Standardization of Neurotechnology for Brain-Machine Interfacing: State of the Art and Recommendations. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 71-73.	2.3	6
48	Neural Basis For The Brain Responses To The Marketing Messages: an High Resolution EEG study. , 2006, 2006, 3676-9.		5
49	A UML model for the description of different brain-computer interface systems. , 2008, 2008, 1363-6.		5
50	UML model applied as a useful tool for Wireless Body Area Networks. , 2009, , .		5
51	Brain-Computer Interfaces for Assessment and Communication in Disorders of Consciousness. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 181-214.	0.4	5
52	Virtual reality implementation as a useful software tool for e-health applications. , 2009, , .		4
53	Comparison of two different classifiers for mental tasks-based Brain-Computer Interface: MLP Neural Networks vs. Fuzzy Logic. , 2009, , .		4
54	Fractional-calculus diffusion equation. Nonlinear Biomedical Physics, 2010, 4, 3.	1.5	4

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55	Group study via collaborative BCI. , 2019, , .		4
56	A functional BCI model by the IEEE P2731 working group: data storage and sharing. Brain-Computer Interfaces, 2021, 8, 108-116.	1.8	4
57	Moving Towards a Hardware Implementation of the Independent Component Analysis for Brain Computer Interfaces. , 2007, , .		3
58	A Functional BCI Model by the P2731 Working Group: Transducer. Brain-Computer Interfaces, 2021, 8, 92-107.	1.8	3
59	Interacting with the Environment through Non-invasive Brain-Computer Interfaces. Lecture Notes in Computer Science, 2009, , 483-492.	1.3	3
60	Optimized Collaborative Brain-Computer Interfaces for Enhancing Face Recognition. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1223-1232.	4.9	3
61	Brain Computer Interface research at the Neuroscience Department of the "Tor Vergata" University of Rome, Italy. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4715-8.	0.5	2
62	Mental task recognition based on SVM classification. , 2009, , .		2
63	Brain-Computer Interface Systems: Why a Standard Model is Essential on BCI Standards. , 2018, , .		2
64	Towards Bridging the Gap Between Computational Intelligence and Neuroscience in Brain-Computer Interfaces With a Common Description of Systems and Data. Frontiers in Neuroinformatics, 2021, 15, 699840.	2.5	2
65	A Videogame Driven by the Mind: Are Motor Acts Necessary to Play?. Advances in Intelligent Systems and Computing, 2020, , 40-50.	0.6	2
66	A new visual feed-back modality for the reduction of artifacts in mu-rhythm based brain-computer interfaces. , 2008, 2008, 1323-6.		1
67	Analog-Like Control is Possible in SSVEP Based Brain-Computer Interfaces. , 2018, , .		1
68	A functional BCI model by the P2731 working group: control interface. Brain-Computer Interfaces, 2021, 8, 154-160.	1.8	1
69	Neural Basis For Cortical-Network Responses To TV Spots: a High Resolution EEG study. , 2007, , .		0
70	Simultaneous Tracking of Multiple Brains Activity with High Resolution EEG Hyperscannings. , 2007, , .		0
71	Efficiency of a BCI system in a visual P300 protocol with different stimulation intervals. , 2009, , .		0
72	Optimal mental task discrimination for brain-computer interface. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	Multiservice temedicine application over an emulated DVB-RCS satellite link. , 2010, , .		0
74	Use of the Choquet integral for combination of classifiers in P300 based brain-computer interface. , 2011, , .		0