

# 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	Improving P300 Speller performance by means of optimization and machine learning. <i>Annals of Operations Research</i> , 2022, 312, 1221-1259.	4.1	7
2	Optimized Collaborative Brain-Computer Interfaces for Enhancing Face Recognition. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 1223-1232.	4.9	3
3	Special Report on the Impact of the COVID-19 Pandemic on Clinical EEG and Research and Consensus Recommendations for the Safe Use of EEG. <i>Clinical EEG and Neuroscience</i> , 2021, 52, 3-28.	1.7	13
4	A Functional Model for Unifying Brain Computer Interface Terminology. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2021, 2, 91-96.	2.3	12
5	Towards Bridging the Gap Between Computational Intelligence and Neuroscience in Brain-Computer Interfaces With a Common Description of Systems and Data. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 699840.	2.5	2
6	A functional BCI model by the IEEE P2731 working group: data storage and sharing. <i>Brain-Computer Interfaces</i> , 2021, 8, 108-116.	1.8	4
7	A Functional BCI Model by the P2731 Working Group: Transducer. <i>Brain-Computer Interfaces</i> , 2021, 8, 92-107.	1.8	3
8	Standardization of Neurotechnology for Brain-Machine Interfacing: State of the Art and Recommendations. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2021, 2, 71-73.	2.3	6
9	A functional BCI model by the P2731 working group: control interface. <i>Brain-Computer Interfaces</i> , 2021, 8, 154-160.	1.8	1
10	A Videogame Driven by the Mind: Are Motor Acts Necessary to Play?. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 40-50.	0.6	2
11	A New Early Stopping Method for P300 Spellers. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1635-1643.	4.9	6
12	Group study via collaborative BCI. , 2019, , .		4
13	Analog-Like Control is Possible in SSVEP Based Brain-Computer Interfaces. , 2018, , .		1
14	Brain-Computer Interface Systems: Why a Standard Model is Essential on BCI Standards. , 2018, , .		2
15	A Fuzzy Integral Ensemble Method in Visual P300 Brain-Computer Interface. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-9.	1.7	23
16	Cognitive Processing in Non-Communicative Patients: What Can Event-Related Potentials Tell Us?. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 569.	2.0	16
17	Movement Detection of Human Body Segments: Passive radio-frequency identification and machine-learning technologies. <i>IEEE Antennas and Propagation Magazine</i> , 2015, 57, 23-37.	1.4	57
18	In Vitro Analysis of Pyrogenicity and Cytotoxicity Profiles of Flex Sensors to be Used to Sense Human Joint Postures. <i>Sensors</i> , 2014, 14, 11672-11681.	3.8	12

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19	Combined passive radiofrequency identification and machine learning technique to recognize human motion. , 2014, , .		7
20	Performance measurement for brain-computer or brain-machine interfaces: a tutorial. Journal of Neural Engineering, 2014, 11, 035001.	3.5	71
21	On ERPs detection in disorders of consciousness rehabilitation. Frontiers in Human Neuroscience, 2013, 7, 775.	2.0	79
22	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
23	Use of the Choquet integral for combination of classifiers in P300 based brain-computer interface. , 2011, , .		0
24	Workload measurement in a communication application operated through a P300-based brain-computer interface. Journal of Neural Engineering, 2011, 8, 025028.	3.5	77
25	Current trends in hardware and software for brain-computer interfaces (BCIs). Journal of Neural Engineering, 2011, 8, 025001.	3.5	91
26	Optimizing the P300-based brain-computer interface: current status, limitations and future directions. Journal of Neural Engineering, 2011, 8, 025003.	3.5	154
27	Tools for brain-computer interaction: a general concept for a hybrid BCI. Frontiers in Neuroinformatics, 2011, 5, 30.	2.5	121
28	Which Physiological Components are More Suitable for Visual ERP Based Brain-Computer Interface? A Preliminary MEG/EEG Study. Brain Topography, 2010, 23, 180-185.	1.8	85
29	Fractional-calculus diffusion equation. Nonlinear Biomedical Physics, 2010, 4, 3.	1.5	4
30	Patterns of cortical activity during the observation of Public Service Announcements and commercial advertisings. Nonlinear Biomedical Physics, 2010, 4, S3.	1.5	6
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	Advanced brain computer interface for communication and control. , 2010, , .		14
33	Optimal mental task discrimination for brain-computer interface. , 2010, , .		0
34	Multiservice telemedicine application over an emulated DVB-RCS satellite link. , 2010, , .		0
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Introducing NPXLab 2010: A tool for the analysis and optimization of P300 based brain-computer interfaces. , 2009, , .		6
38	Single-epoch analysis of interleaved evoked potentials and fMRI responses during steady-state visual stimulation. Clinical Neurophysiology, 2009, 120, 738-747.	1.5	15
39	The study of brain activity during the observation of commercial advertsing by using high resolution EEG techniques. , 2009, 2009, 57-60.		17
40	Virtual reality implementation as a useful software tool for e-health applications. , 2009, , .		4
41	Mental task recognition based on SVM classification. , 2009, , .		2
42	Comparison of two different classifiers for mental tasks-based Brain-Computer Interface: MLP Neural Networks vs. Fuzzy Logic. , 2009, , .		4
43	UML model applied as a useful tool for Wireless Body Area Networks. , 2009, , .		5
44	Efficiency of a BCI system in a visual P300 protocol with different stimulation intervals. , 2009, , .		0
45	Interacting with the Environment through Non-invasive Brain-Computer Interfaces. Lecture Notes in Computer Science, 2009, , 483-492.	1.3	3
46	High-resolution EEG techniques for brainâ€“computer interface applications. Journal of Neuroscience Methods, 2008, 167, 31-42.	2.5	98
47	Describing Different Brain Computer Interface Systems Through a Unique Model: A UML Implementation. Neuroinformatics, 2008, 6, 81-96.	2.8	28
48	Neural Basis for Brain Responses to TV Commercials: A High-Resolution EEG Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 522-531.	4.9	100
49	A UML model for the description of different brain-computer interface systems. , 2008, 2008, 1363-6.		5
50	A new visual feed-back modality for the reduction of artifacts in mu-rhythm based brain-computer interfaces. , 2008, 2008, 1323-6.		1
51	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
52	Moving Towards a Hardware Implementation of the Independent Component Analysis for Brain Computer Interfaces. , 2007, , .		3
53	Neural Basis For Cortical-Network Responses To TV Spots: a High Resolution EEG study. , 2007, , .		0
54	High Resolution EEG Hyperscanning During a Card Game. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4957-60.	0.5	61

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55	Simultaneous Tracking of Multiple Brains Activity with High Resolution EEG Hyperscannings. , 2007, , .		0
56	How the NPX data format handles EEG data acquired simultaneously with fMRI. Magnetic Resonance Imaging, 2007, 25, 1011-1014.	1.8	14
57	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
58	Hypermethods for EEG hyperscanning. , 2006, 2006, 3666-9.		99
59	An independent component analysis-based approach on ballistocardiogram artifact removing. Magnetic Resonance Imaging, 2006, 24, 393-400.	1.8	50
60	BCI meeting 2005-workshop on technology: hardware and software. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 128-131.	4.9	14
61	Neural Basis For The Brain Responses To The Marketing Messages: an High Resolution EEG study. , 2006, 2006, 3676-9.		5
62	Simultaneous EEG&acircfMRI acquisition: how far is it from being a standardized technique?. Magnetic Resonance Imaging, 2004, 22, 1445-1455.	1.8	32
63	Topiramate: effect on EEG interictal abnormalities and background activity in patients affected by focal epilepsy. Epilepsy Research, 2004, 58, 43-52.	1.6	33
64	Quantitative EEG and dynamic susceptibility contrast MRI in Alzheimer's disease: a correlative study. Clinical Neurophysiology, 2003, 114, 1210-1216.	1.5	76
65	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
66	Developing wearable bio-feedback systems: a general-purpose platform. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 1-3.	4.9	15
67	Recognition of imagined hand movements with low resolution surface Laplacian and linear classifiers. Medical Engineering and Physics, 2001, 23, 323-328.	1.7	48
68	Linear classification of low-resolution EEG patterns produced by imagined hand movements. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 2000, 8, 186-188.	1.4	133
69	Individual characteristics of human walking mechanics. Pflugers Archiv European Journal of Physiology, 1998, 436, 343-356.	2.8	87
70	Motor Patterns for Human Gait: Backward Versus Forward Locomotion. Journal of Neurophysiology, 1998, 80, 1868-1885.	1.8	288
71	Kinematic Coordination in Human Gait: Relation to Mechanical Energy Cost. Journal of Neurophysiology, 1998, 79, 2155-2170.	1.8	152
72	Combination of Hand and Gaze Signals During Reaching: Activity in Parietal Area 7m of the Monkey. Journal of Neurophysiology, 1997, 77, 1034-1038.	1.8	114

#	ARTICLE	IF	CITATIONS
73	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
74	Brain-Computer Interfaces for Assessment and Communication in Disorders of Consciousness. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 0, , 181-214.	0.4	5