

Gianluca Di Flumeri

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73 papers	1,186 citations	19 h-index	33 g-index
85 ext. papers	1,612 ext. citations	2.1 avg, IF	4.58 L-index

#	Paper	IF	Citations
73	Passive BCI beyond the lab: current trends and future directions. <i>Physiological Measurement</i> , 2018 , 39, 08TR02	2.9	97
72	Adaptive Automation Triggered by EEG-Based Mental Workload Index: A Passive Brain-Computer Interface Application in Realistic Air Traffic Control Environment. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 539	3.3	94
71	Passive BCI in Operational Environments: Insights, Recent Advances, and Future Trends. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1431-1436	5	81
70	The Dry Revolution: Evaluation of Three Different EEG Dry Electrode Types in Terms of Signal Spectral Features, Mental States Classification and Usability. <i>Sensors</i> , 2019 , 19,	3.8	69
69	EEG-Based Cognitive Control Behaviour Assessment: an Ecological study with Professional Air Traffic Controllers. <i>Scientific Reports</i> , 2017 , 7, 547	4.9	68
68	A passive brain-computer interface application for the mental workload assessment on professional air traffic controllers during realistic air traffic control tasks. <i>Progress in Brain Research</i> , 2016 , 228, 295-328	2.9	67
67	EEG-Based Mental Workload Neurometric to Evaluate the Impact of Different Traffic and Road Conditions in Real Driving Settings. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 509	3.3	56
66	Human Factors and Neurophysiological Metrics in Air Traffic Control: A Critical Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2017 , 10, 250-263	6.4	52
65	A new regression-based method for the eye blinks artifacts correction in the EEG signal, without using any EOG channel. <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, 2187-2190	0.9	48
64	Consumer Behaviour through the Eyes of Neurophysiological Measures: State-of-the-Art and Future Trends. <i>Computational Intelligence and Neuroscience</i> , 2019 , 2019, 1976847	3	35
63	Brain Interaction during Cooperation: Evaluating Local Properties of Multiple-Brain Network. <i>Brain Sciences</i> , 2017 , 7,	3.4	31
62	Reliability over time of EEG-based mental workload evaluation during Air Traffic Management (ATM) tasks. <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, 7242-5	0.9	28
61	Mental workload estimations in unilateral deafened children. <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, 1654-7	0.9	28
60	Brain-Computer Interface-Based Adaptive Automation to Prevent Out-Of-The-Loop Phenomenon in Air Traffic Controllers Dealing With Highly Automated Systems. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 296	3.3	27
59	Monitoring Pilot's Cognitive Fatigue with Engagement Features in Simulated and Actual Flight Conditions Using an Hybrid fNIRS-EEG Passive BCI 2018 ,		27
58	A New Perspective for the Training Assessment: Machine Learning-Based Neurometric for Augmented User's Evaluation. <i>Frontiers in Neuroscience</i> , 2017 , 11, 325	5.1	26
57	Avionic technology testing by using a cognitive neurometric index: A study with professional helicopter pilots. <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, 6182-5	0.9	26

56	Gender and Age Related Effects While Watching TV Advertisements: An EEG Study. <i>Computational Intelligence and Neuroscience</i> , 2016 , 2016, 3795325	3	26
55	Neurophysiological Responses to Different Product Experiences. <i>Computational Intelligence and Neuroscience</i> , 2018 , 2018, 9616301	3	26
54	On the Use of Cognitive Neurometric Indexes in Aeronautic and Air Traffic Management Environments. <i>Lecture Notes in Computer Science</i> , 2015 , 45-56	0.9	18
53	EEG-based Approach-Withdrawal index for the pleasantness evaluation during taste experience in realistic settings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3228-3231	0.9	17
52	EEG Frontal Asymmetry Related to Pleasantness of Olfactory Stimuli in Young Subjects. <i>Springer Proceedings in Business and Economics</i> , 2016 , 373-381	0.2	16
51	How Neurophysiological Measures Can be Used to Enhance the Evaluation of Remote Tower Solutions. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 303	3.3	15
50	Neuroelectrical Indexes for the Study of the Efficacy of TV Advertising Stimuli. <i>Springer Proceedings in Business and Economics</i> , 2016 , 355-371	0.2	15
49	Correlation and Similarity between Cerebral and Non-Cerebral Electrical Activity for User's States Assessment. <i>Sensors</i> , 2019 , 19,	3.8	13
48	The impact of multisensory integration and perceptual load in virtual reality settings on performance, workload and presence. <i>Scientific Reports</i> , 2021 , 11, 4831	4.9	12
47	A multimodal and signals fusion approach for assessing the impact of stressful events on Air Traffic Controllers. <i>Scientific Reports</i> , 2020 , 10, 8600	4.9	11
46	Neurophysiological measures for users' training objective assessment during simulated robot-assisted laparoscopic surgery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 981-984	0.9	11
45	EEG rhythms lateralization patterns in children with unilateral hearing loss are different from the patterns of normal hearing controls during speech-in-noise listening. <i>Hearing Research</i> , 2019 , 379, 31-42	3.9	10
44	Neurophysiological Vigilance Characterisation and Assessment: Laboratory and Realistic Validations Involving Professional Air Traffic Controllers. <i>Brain Sciences</i> , 2020 , 10,	3.4	8
43	Wearable Technologies for Mental Workload, Stress, and Emotional State Assessment during Working-Like Tasks: A Comparison with Laboratory Technologies. <i>Sensors</i> , 2021 , 21,	3.8	8
42	Human-Machine Interaction Assessment by Neurophysiological Measures: A Study on Professional Air Traffic Controllers. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 4619-4622	0.9	8
41	Industrial Neuroscience in Aviation. <i>Biosystems and Biorobotics</i> , 2017 ,	0.2	7
40	Double-Step Machine Learning Based Procedure for HFOs Detection and Classification. <i>Brain Sciences</i> , 2020 , 10,	3.4	7
39	An electroencephalographic Peak Density Function to detect memorization during the observation of TV commercials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 6269-72	0.9	7

38	EEG-Based Mental Workload Assessment During Real Driving: A Taxonomic Tool for Neuroergonomics in Highly Automated Environments 2019 , 121-126		7
37	A Novel Mutual Information Based Feature Set for Drivers' Mental Workload Evaluation Using Machine Learning. <i>Brain Sciences</i> , 2020 , 10,	3.4	6
36	The Sample Size Matters: To What Extent the Participant Reduction Affects the Outcomes of a Neuroscientific Research. A Case-Study in Neuromarketing Field. <i>Sensors</i> , 2021 , 21,	3.8	6
35	A Survey on Artificial Intelligence (AI) and eXplainable AI in Air Traffic Management: Current Trends and Development with Future Research Trajectory. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1295	2.6	5
34	Transparency and Reliability in Neuromarketing Research 2017 , 101-111		4
33	On the Use of Machine Learning for EEG-Based Workload Assessment: Algorithms Comparison in a Realistic Task. <i>Communications in Computer and Information Science</i> , 2019 , 170-185	0.3	4
32	EEG-Based Workload Index as a Taxonomic Tool to Evaluate the Similarity of Different Robot-Assisted Surgery Systems. <i>Communications in Computer and Information Science</i> , 2019 , 105-117	0.3	4
31	Joint Analysis of Eye Blinks and Brain Activity to Investigate Attentional Demand during a Visual Search Task. <i>Brain Sciences</i> , 2021 , 11,	3.4	4
30	A Video-Based Technique for Heart Rate and Eye Blinks Rate Estimation: A Potential Solution for Telemonitoring and Remote Healthcare. <i>Sensors</i> , 2021 , 21,	3.8	4
29	Monitoring performance of professional and occupational operators. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2020 , 168, 199-205	3	3
28	How the workload impacts on cognitive cooperation: A pilot study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3961-3964	0.9	3
27	Deep Learning for Automatic EEG Feature Extraction: An Application in Drivers' Mental Workload Classification. <i>Communications in Computer and Information Science</i> , 2019 , 121-135	0.3	3
26	Marketing Meets Neuroscience. <i>Advances in Business Strategy and Competitive Advantage Book Series</i> , 2017 , 163-190	0.3	3
25	Stress Assessment by Combining Neurophysiological Signals and Radio Communications of Air Traffic Controllers. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 851-854	0.9	3
24	An EEG-Based Transfer Learning Method for Cross-Subject Fatigue Mental State Prediction. <i>Sensors</i> , 2021 , 21,	3.8	3
23	Multivariate model for cooperation: bridging social physiological compliance and hyperscanning. <i>Social Cognitive and Affective Neuroscience</i> , 2021 , 16, 193-209	4	3
22	Forefront Users' Experience Evaluation by Employing Together Virtual Reality and Electroencephalography: A Case Study on Cognitive Effects of Scents. <i>Brain Sciences</i> , 2021 , 11,	3.4	3
21	Validation of a Light EEG-Based Measure for Real-Time Stress Monitoring during Realistic Driving.. <i>Brain Sciences</i> , 2022 , 12,	3.4	3

20	Toward a cooperation index based on EEG-workload causality: preliminary findings on aerospace-like tasks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 4554-4557</i>	0.9	2
19	Evaluation of different cochlear implants in unilateral hearing patients during word listening tasks: A brain connectivity study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 2472-2475</i>	0.9	2
18	An eye tracking index for the salience estimation in visual stimuli. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 4483-4486</i>	0.9	2
17	EEG-Based Mental Workload and Perception-Reaction Time of the Drivers While Using Adaptive Cruise Control. <i>Communications in Computer and Information Science, 2019, 226-239</i>	0.3	2
16	Label-Based Alignment Multi-Source Domain Adaptation for Cross-Subject EEG Fatigue Mental State Evaluation. <i>Frontiers in Human Neuroscience, 2021, 15, 706270</i>	3.3	2
15	Preliminary Concepts. <i>Biosystems and Biorobotics, 2017, 13-27</i>	0.2	1
14	Cognitive Processes. <i>Biosystems and Biorobotics, 2017, 57-70</i>	0.2	1
13	Contactless Physiological Assessment of Mental Workload During Teleworking-like Task. <i>Communications in Computer and Information Science, 2020, 76-86</i>	0.3	1
12	Cloud-Based Data Analytics on Human Factor Measurement to Improve Safer Transport. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, 101-106</i>	0.2	1
11	Assessment of Athletes' Attitude: Physiological Evaluation via Wearable Sensors during Grappling Competitions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 584-587</i>	0.9	1
10	MINIMA Project: Detecting and Mitigating the Negative Impact of Automation. <i>Lecture Notes in Computer Science, 2017, 87-105</i>	0.9	1
9	Message framing, non-conscious perception and effectiveness in non-profit advertising. Contribution by neuromarketing research. <i>International Review on Public and Nonprofit Marketing, 1</i>	1.6	1
8	Mental Effort Estimation by Passive BCI: A Cross-Subject Analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 906-909</i>	0.9	1
7	Mental States in Aviation. <i>Biosystems and Biorobotics, 2017, 29-56</i>	0.2	0
6	Simulators. <i>Biosystems and Biorobotics, 2017, 71-81</i>	0.2	
5	Neurophysiological Signals Processing. <i>Biosystems and Biorobotics, 2017, 83-113</i>	0.2	
4	Hedonic editing and order effect in decision-making with neurometric evaluation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 4179-4182</i>	0.9	
3	Involving Hearing, Haptics and Kinesthetics into Non-visual Interaction Concepts for an Augmented Remote Tower Environment. <i>Communications in Computer and Information Science, 2020, 73-100</i>	0.3	

2 Marketing Meets Neuroscience **2018**, 391-412

1 Air Force Pilot Expertise Assessment with Regard to Mental Effort Requested during Unusual Attitude Recovery Flight Training Simulations. *Safety*, **2022**, 8, 38

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