Gianluca Di Flumeri

List of Publications by Year in Descending Order

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	A Survey on Artificial Intelligence (AI) and eXplainable AI in Air Traffic Management: Current Trends and Development with Future Research Trajectory. *Applied Sciences (Switzerland)*, **2022**, 12, 1295	2.6	5
72	Validation of a Light EEG-Based Measure for Real-Time Stress Monitoring during Realistic Driving.. *Brain Sciences*, **2022**, 12,	3.4	3
71	Air Force Pilot Expertise Assessment with Regard to Mental Effort Requested during Unusual Attitude Recovery Flight Training Simulations. *Safety*, **2022**, 8, 38	1.7	
70	Wearable Technologies for Mental Workload, Stress, and Emotional State Assessment during Working-Like Tasks: A Comparison with Laboratory Technologies. *Sensors*, **2021**, 21,	3.8	8
69	The impact of multisensory integration and perceptual load in virtual reality settings on performance, workload and presence. *Scientific Reports*, **2021**, 11, 4831	4.9	12
68	An EEG-Based Transfer Learning Method for Cross-Subject Fatigue Mental State Prediction. *Sensors* , **2021**, 21,	3.8	3
67	Joint Analysis of Eye Blinks and Brain Activity to Investigate Attentional Demand during a Visual Search Task. *Brain Sciences*, **2021**, 11,	3.4	4
66	Multivariate model for cooperation: bridging social physiological compliance and hyperscanning. *Social Cognitive and Affective Neuroscience*, **2021**, 16, 193-209	4	3
65	A Video-Based Technique for Heart Rate and Eye Blinks Rate Estimation: A Potential Solution for Telemonitoring and Remote Healthcare. *Sensors*, **2021**, 21,	3.8	4
64	Forefront Users' Experience Evaluation by Employing Together Virtual Reality and Electroencephalography: A Case Study on Cognitive Effects of Scents. *Brain Sciences*, **2021**, 11,	3.4	3
63	The Sample Size Matters: To What Extent the Participant Reduction Affects the Outcomes of a Neuroscientific Research. A Case-Study in Neuromarketing Field. *Sensors*, **2021**, 21,	3.8	6
62	Label-Based Alignment Multi-Source Domain Adaptation for Cross-Subject EEG Fatigue Mental State Evaluation. *Frontiers in Human Neuroscience*, **2021**, 15, 706270	3.3	2
61	Mental Effort Estimation by Passive BCI: A Cross-Subject Analysis. *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	0.9	1
60	Contactless Physiological Assessment of Mental Workload During Teleworking-like Task. *Communications in Computer and Information Science*, **2020**, 76-86	0.3	1
59	A multimodal and signals fusion approach for assessing the impact of stressful events on Air Traffic Controllers. *Scientific Reports*, **2020**, 10, 8600	4.9	11
58	Monitoring performance of professional and occupational operators. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2020**, 168, 199-205	3	3
57	Neurophysiological Vigilance Characterisation and Assessment: Laboratory and Realistic Validations Involving Professional Air Traffic Controllers. *Brain Sciences*, **2020**, 10,	3.4	8

56	Double-Step Machine Learning Based Procedure for HFOs Detection and Classification. *Brain Sciences*, **2020**, 10,	3.4	7
55	Involving Hearing, Haptics and Kinesthetics into Non-visual Interaction Concepts for an Augmented Remote Tower Environment. *Communications in Computer and Information Science*, **2020**, 73-100	0.3	
54	Assessment of Athletes' Attitude: Physiological Evaluation via Wearable Sensors during Grappling Competitions. *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	0.9	1
53	Stress Assessment by Combining Neurophysiological Signals and Radio Communications of Air Traffic Controllers. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 851-854	0.9	3
52	A Novel Mutual Information Based Feature Set for Drivers' Mental Workload Evaluation Using Machine Learning. *Brain Sciences*, **2020**, 10,	3.4	6
51	How Neurophysiological Measures Can be Used to Enhance the Evaluation of Remote Tower Solutions. *Frontiers in Human Neuroscience*, **2019**, 13, 303	3.3	15
50	Consumer Behaviour through the Eyes of Neurophysiological Measures: State-of-the-Art and Future Trends. *Computational Intelligence and Neuroscience*, **2019**, 2019, 1976847	3	35
49	EEG rhythms lateralization patterns in children with unilateral hearing loss are different from the patterns of normal hearing controls during speech-in-noise listening. *Hearing Research*, **2019**, 379, 31-42	3.9	10
48	Correlation and Similarity between Cerebral and Non-Cerebral Electrical Activity for User's States Assessment. *Sensors*, **2019**, 19,	3.8	13
47	The Dry Revolution: Evaluation of Three Different EEG Dry Electrode Types in Terms of Signal Spectral Features, Mental States Classification and Usability. *Sensors*, **2019**, 19,	3.8	69
46	Brain-Computer Interface-Based Adaptive Automation to Prevent Out-Of-The-Loop Phenomenon in Air Traffic Controllers Dealing With Highly Automated Systems. *Frontiers in Human Neuroscience*, **2019**, 13, 296	3.3	27
45	Toward a cooperation index based on EEG-workload causality: preliminary findings on aerospace-like tasks. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 4554-4557	0.9	2
44	EEG-Based Mental Workload and Perception-Reaction Time of the Drivers While Using Adaptive Cruise Control. *Communications in Computer and Information Science*, **2019**, 226-239	0.3	2
43	Deep Learning for Automatic EEG Feature Extraction: An Application in Drivers Mental Workload Classification. *Communications in Computer and Information Science*, **2019**, 121-135	0.3	3
42	On the Use of Machine Learning for EEG-Based Workload Assessment: Algorithms Comparison in a Realistic Task. *Communications in Computer and Information Science*, **2019**, 170-185	0.3	4
41	EEG-Based Workload Index as a Taxonomic Tool to Evaluate the Similarity of Different Robot-Assisted Surgery Systems. *Communications in Computer and Information Science*, **2019**, 105-117	0.3	4
40	EEG-Based Mental Workload Assessment During Real Driving: A Taxonomic Tool for Neuroergonomics in Highly Automated Environments **2019**, 121-126		7
39	Passive BCI beyond the lab: current trends and future directions. *Physiological Measurement*, **2018**, 39, 08TR02	2.9	97

38	Marketing Meets Neuroscience **2018**, 391-412		
37	Cloud-Based Data Analytics on Human Factor Measurement to Improve Safer Transport. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2018**, 101-106	0.2	1
36	Human-Machine Interaction Assessment by Neurophysiological Measures: A Study on Professional Air Traffic Controllers. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 4619-4622	0.9	8
35	Monitoring Pilot's Cognitive Fatigue with Engagement Features in Simulated and Actual Flight Conditions Using an Hybrid fNIRS-EEG Passive BCI **2018**,		27
34	EEG-Based Mental Workload Neurometric to Evaluate the Impact of Different Traffic and Road Conditions in Real Driving Settings. *Frontiers in Human Neuroscience*, **2018**, 12, 509	3.3	56
33	Neurophysiological Responses to Different Product Experiences. *Computational Intelligence and Neuroscience*, **2018**, 2018, 9616301	3	26
32	Human Factors and Neurophysiological Metrics in Air Traffic Control: A Critical Review. *IEEE Reviews in Biomedical Engineering*, **2017**, 10, 250-263	6.4	52
31	Passive BCI in Operational Environments: Insights, Recent Advances, and Future Trends. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 1431-1436	5	81
30	Preliminary Concepts. *Biosystems and Biorobotics*, **2017**, 13-27	0.2	1
29	Mental States in Aviation. *Biosystems and Biorobotics*, **2017**, 29-56	0.2	0
28	Cognitive Processes. *Biosystems and Biorobotics*, **2017**, 57-70	0.2	1
27	Simulators. *Biosystems and Biorobotics*, **2017**, 71-81	0.2	
26	Neurophysiological Signals Processing. *Biosystems and Biorobotics*, **2017**, 83-113	0.2	
25	Industrial Neuroscience in Aviation. *Biosystems and Biorobotics*, **2017**,	0.2	7
24	EEG-Based Cognitive Control Behaviour Assessment: an Ecological study with Professional Air Traffic Controllers. *Scientific Reports*, **2017**, 7, 547	4.9	68
23	Brain Interaction during Cooperation: Evaluating Local Properties of Multiple-Brain Network. *Brain Sciences*, **2017**, 7,	3.4	31
22	Evaluation of different cochlear implants in unilateral hearing patients during word listening tasks: A brain connectivity study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 2470-2473	0.9	2
21	Transparency and Reliability in Neuromarketing Research **2017**, 101-111		4

20	How the workload impacts on cognitive cooperation: A pilot study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 3961-3964	0.9	3
19	An eye tracking index for the salience estimation in visual stimuli. *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	0.9	2
18	EEG-based Approach-Withdrawal index for the pleasantness evaluation during taste experience in realistic settings. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 3228-3231	0.9	17
17	Hedonic editing and order effect in decision-making with neurometric evaluation. *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	0.9	
16	A New Perspective for the Training Assessment: Machine Learning-Based Neurometric for Augmented User's Evaluation. *Frontiers in Neuroscience*, **2017**, 11, 325	5.1	26
15	MINIMA Project: Detecting and Mitigating the Negative Impact of Automation. *Lecture Notes in Computer Science*, **2017**, 87-105	0.9	1
14	Marketing Meets Neuroscience. *Advances in Business Strategy and Competitive Advantage Book Series*, **2017**, 163-190	0.3	3
13	Neurophysiological measures for users' training objective assessment during simulated robot-assisted laparoscopic surgery. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International*	0.9	11
12	A new regression-based method for the eye blinks artifacts correction in the EEG signal, without using any EOG channel. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 3187-3190	0.9	48
11	A passive brain-computer interface application for the mental workload assessment on professional air traffic controllers during realistic air traffic control tasks. *Progress in Brain Research*, **2016**, 228, 295-328	2.9	67
10	Gender and Age Related Effects While Watching TV Advertisements: An EEG Study. *Computational Intelligence and Neuroscience*, **2016**, 2016, 3795325	3	26
9	Adaptive Automation Triggered by EEG-Based Mental Workload Index: A Passive Brain-Computer Interface Application in Realistic Air Traffic Control Environment. *Frontiers in Human Neuroscience*, **2016**, 10, 539	3.3	94
8	Neuroelectrical Indexes for the Study of the Efficacy of TV Advertising Stimuli. *Springer Proceedings in Business and Economics*, **2016**, 355-371	0.2	15
7	EEG Frontal Asymmetry Related to Pleasantness of Olfactory Stimuli in Young Subjects. *Springer Proceedings in Business and Economics*, **2016**, 373-381	0.2	16
6	Avionic technology testing by using a cognitive neurometric index: A study with professional helicopter pilots. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 6182-5	0.9	26
5	Reliability over time of EEG-based mental workload evaluation during Air Traffic Management (ATM) tasks. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 7242-5	0.9	28
4	Mental workload estimations in unilateral deafened children. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 1654-7	0.9	28
3	On the Use of Cognitive Neurometric Indexes in Aeronautic and Air Traffic Management Environments. *Lecture Notes in Computer Science*, **2015**, 45-56	0.9	18

2	An electroencephalographic Peak Density Function to detect memorization during the observation of TV commercials. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 6969-72	0.9	7
1	Message framing, non-conscious perception and effectiveness in non-profit advertising. Contribution by neuromarketing research. *International Review on Public and Nonprofit Marketing*,1	1.6	1