

Pietro Aric

List of Publications by Year in Descending Order

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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.

77
papers

1,670
citations

26
h-index

38
g-index

85
ext. papers

2,155
ext. citations

2.4
avg, IF

4.74
L-index

#	Paper	IF	Citations
77	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
76	Validation of a Light EEG-Based Measure for Real-Time Stress Monitoring during Realistic Driving.. <i>Brain Sciences</i> , 2022 , 12,	3.4	3
75	Air Force Pilot Expertise Assessment with Regard to Mental Effort Requested during Unusual Attitude Recovery Flight Training Simulations. <i>Safety</i> , 2022 , 8, 38	1.7	
74	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
73	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
72	An EEG-Based Transfer Learning Method for Cross-Subject Fatigue Mental State Prediction. <i>Sensors</i> , 2021 , 21,	3.8	3
71	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
70	Multivariate model for cooperation: bridging social physiological compliance and hyperscanning. <i>Social Cognitive and Affective Neuroscience</i> , 2021 , 16, 193-209	4	3
69	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
68	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
67	Label-Based Alignment Multi-Source Domain Adaptation for Cross-Subject EEG Fatigue Mental State Evaluation. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 706270	3.3	2
66	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</i> , 2021 , 2021, 906-909	0.9	1
65	Contactless Physiological Assessment of Mental Workload During Teleworking-like Task. <i>Communications in Computer and Information Science</i> , 2020 , 76-86	0.3	1
64	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
63	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
62	Neurophysiological Vigilance Characterisation and Assessment: Laboratory and Realistic Validations Involving Professional Air Traffic Controllers. <i>Brain Sciences</i> , 2020 , 10,	3.4	8
61	Double-Step Machine Learning Based Procedure for HFOs Detection and Classification. <i>Brain Sciences</i> , 2020 , 10,	3.4	7

60	Involving Hearing, Haptics and Kinesthetics into Non-visual Interaction Concepts for an Augmented Remote Tower Environment. <i>Communications in Computer and Information Science</i> , 2020 , 73-100	0.3	
59	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</i> , 2020 , 2020, 564-567	0.9	1
58	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
57	A Novel Mutual Information Based Feature Set for Drivers' Mental Workload Evaluation Using Machine Learning. <i>Brain Sciences</i> , 2020 , 10,	3.4	6
56	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
55	Antismoking Campaigns' Perception and Gender Differences: A Comparison among EEG Indices. <i>Computational Intelligence and Neuroscience</i> , 2019 , 2019, 7348795	3	12
54	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
53	Correlation and Similarity between Cerebral and Non-Cerebral Electrical Activity for User's States Assessment. <i>Sensors</i> , 2019 , 19,	3.8	13
52	Audio Focus: Interactive spatial sound coupled with haptics to improve sound source location in poor visibility. <i>International Journal of Human Computer Studies</i> , 2019 , 129, 116-128	4.6	4
51	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
50	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
49	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</i> , 2019 , 2019, 4554-4557	0.9	2
48	EEG-Based Mental Workload and Perception-Reaction Time of the Drivers While Using Adaptive Cruise Control. <i>Communications in Computer and Information Science</i> , 2019 , 226-239	0.3	2
47	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
46	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
45	EEG-Based Mental Workload Assessment During Real Driving: A Taxonomic Tool for Neuroergonomics in Highly Automated Environments 2019 , 121-126		7
44	Passive BCI beyond the lab: current trends and future directions. <i>Physiological Measurement</i> , 2018 , 39, 08TR02	2.9	97
43	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, 4618-4622	0.9	8

42	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
41	Neurophysiological Profile of Antismoking Campaigns. <i>Computational Intelligence and Neuroscience</i> , 2018 , 2018, 9721561	3	10
40	Neurophysiological Responses to Different Product Experiences. <i>Computational Intelligence and Neuroscience</i> , 2018 , 2018, 9616301	3	26
39	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
38	Passive BCI in Operational Environments: Insights, Recent Advances, and Future Trends. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1431-1436	5	81
37	Preliminary Concepts. <i>Biosystems and Biorobotics</i> , 2017 , 13-27	0.2	1
36	Mental States in Aviation. <i>Biosystems and Biorobotics</i> , 2017 , 29-56	0.2	0
35	Neurophysiological Signals Processing. <i>Biosystems and Biorobotics</i> , 2017 , 83-113	0.2	
34	Industrial Neuroscience in Aviation. <i>Biosystems and Biorobotics</i> , 2017 ,	0.2	7
33	EEG-Based Cognitive Control Behaviour Assessment: an Ecological study with Professional Air Traffic Controllers. <i>Scientific Reports</i> , 2017 , 7, 547	4.9	68
32	Brain Interaction during Cooperation: Evaluating Local Properties of Multiple-Brain Network. <i>Brain Sciences</i> , 2017 , 7,	3.4	31
31	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
30	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
29	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
28	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
27	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> , 2016 , 2016, 2107-2110	0.9	48
26	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
25	Quantitative Assessment of the Training Improvement in a Motor-Cognitive Task by Using EEG, ECG and EOG Signals. <i>Brain Topography</i> , 2016 , 29, 149-61	4.3	49

24	Investigation of the effect of EEG-BCI on the simultaneous execution of flight simulation and attentional tasks. <i>Medical and Biological Engineering and Computing</i> , 2016 , 54, 1503-13	3.1	28
23	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
22	Hybrid P300-based brain-computer interface to improve usability for people with severe motor disability: electromyographic signals for error correction during a spelling task. <i>Archives of Physical Medicine and Rehabilitation</i> , 2015 , 96, S54-61	2.8	41
21	Training-induced changes in information transfer efficiency of the brain network: A functional connectome approach 2015 ,		5
20	Cooperation driven coherence: Brains working hard together. <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, 4696-9	0.9	6
19	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 ,	0.9	26
18	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
17	P300 latency Jitter occurrence in patients with disorders of consciousness: Toward a better design for Brain Computer Interface applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International</i>	0.9	5
16	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
15	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
14	Influence of P300 latency jitter on event related potential-based brain-computer interface performance. <i>Journal of Neural Engineering</i> , 2014 , 11, 035008	5	38
13	Self-calibration algorithm in an asynchronous P300-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2014 , 11, 035004	5	17
12	Evaluation of the workload and drowsiness during car driving by using high resolution EEG activity and neurophysiologic indices. <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, 6238-41	0.9	25
11	Towards a multimodal bioelectrical framework for the online mental workload evaluation. <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, 3001-4	0.9	23
10	A neurophysiological training evaluation metric for air traffic management. <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, 3005-8	0.9	16
9	The great beauty: a neuroaesthetic study by neuroelectric imaging during the observation of the real Michelangelo's Moses sculpture. <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, 6965-8	0.9	5
8	Asynchronous gaze-independent event-related potential-based brain-computer interface. <i>Artificial Intelligence in Medicine</i> , 2013 , 59, 61-9	7.4	26
7	Frontal EEG theta changes assess the training improvements of novices in flight simulation 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> , 2013 , 2013, 6619-22	0.9	33

6	EEG-based Brain-Computer Interface to support post-stroke motor rehabilitation of the upper limb. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 4112-5</i>	0.9	55
5	A comparison of classification techniques for a gaze-independent P300-based brain-computer interface. <i>Journal of Neural Engineering, 2012, 9, 045012</i>	5	27
4	A covert attention P300-based brain-computer interface: Geospell. <i>Ergonomics, 2012, 55, 538-51</i>	2.9	56
3	Control or no-control? Reducing the gap between brain-computer interface and classical input devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 1815-8</i>	0.9	2
2	P300-based brain-computer interface for environmental control: an asynchronous approach. <i>Journal of Neural Engineering, 2011, 8, 025025</i>	5	74
1	Asynchronous P300-based brain-computer interface to control a virtual environment: initial tests on end users. <i>Clinical EEG and Neuroscience, 2011, 42, 219-24</i>	2.3	63