

# Pietro AricÃ²

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4230457/publications.pdf>

Version: 2024-02-01

81  
papers

2,620  
citations

236612

25  
h-index

233125

45  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1862  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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. | 1.3 | 40        |
| 2  | Validation of a Light EEG-Based Measure for Real-Time Stress Monitoring during Realistic Driving. Brain Sciences, 2022, 12, 304.   | 1.1 | 22        |
| 3  | Air Force Pilot Expertise Assessment during Unusual Attitude Recovery Flight. Safety, 2022, 8, 38.   | 0.9 | 4         |
| 4  | Multivariate model for cooperation: bridging social physiological compliance and hyperscanning. Social Cognitive and Affective Neuroscience, 2021, 16, 193-209.  | 1.5 | 14        |
| 5  | A Video-Based Technique for Heart Rate and Eye Blinks Rate Estimation: A Potential Solution for Telemonitoring and Remote Healthcare. Sensors, 2021, 21, 1607.   | 2.1 | 11        |
| 6  | Wearable Technologies for Mental Workload, Stress, and Emotional State Assessment during Working-Like Tasks: A Comparison with Laboratory Technologies. Sensors, 2021, 21, 2332.                       | 2.1 | 30        |
| 7  | The impact of multisensory integration and perceptual load in virtual reality settings on performance, workload and presence. Scientific Reports, 2021, 11, 4831.                                      | 1.6 | 59        |
| 8  | An EEG-Based Transfer Learning Method for Cross-Subject Fatigue Mental State Prediction. Sensors, 2021, 21, 2369.  | 2.1 | 31        |
| 9  | Joint Analysis of Eye Blinks and Brain Activity to Investigate Attentional Demand during a Visual Search Task. Brain Sciences, 2021, 11, 562.  | 1.1 | 12        |
| 10 | 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, 6088.                   | 2.1 | 28        |
| 11 | Label-Based Alignment Multi-Source Domain Adaptation for Cross-Subject EEG Fatigue Mental State Evaluation. Frontiers in Human Neuroscience, 2021, 15, 706270.   | 1.0 | 9         |
| 12 | Mental Effort Estimation by Passive BCI: A Cross-Subject Analysis. , 2021, 2021, 906-909.  |     | 2         |
| 13 | Stress Assessment by Combining Neurophysiological Signals and Radio Communications of Air Traffic Controllers. , 2020, 2020, 851-854.  |     | 6         |
| 14 | A Novel Mutual Information Based Feature Set for Driversâ€™ Mental Workload Evaluation Using Machine Learning. Brain Sciences, 2020, 10, 551.  | 1.1 | 16        |
| 15 | Contactless Physiological Assessment of Mental Workload During Teleworking-like Task. Communications in Computer and Information Science, 2020, , 76-86.   | 0.4 | 1         |
| 16 | A multimodal and signals fusion approach for assessing the impact of stressful events on Air Traffic Controllers. Scientific Reports, 2020, 10, 8600.  | 1.6 | 23        |
| 17 | Brainâ€™Computer Interfaces: Toward a Daily Life Employment. Brain Sciences, 2020, 10, 157.  | 1.1 | 10        |
| 18 | Monitoring performance of professional and occupational operators. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 199-205.  | 1.0 | 6         |

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|----|---|-----|-----------|
| 19 | Neurophysiological Vigilance Characterisation and Assessment: Laboratory and Realistic Validations Involving Professional Air Traffic Controllers. <i>Brain Sciences</i> , 2020, 10, 48.                              | 1.1 | 19        |
| 20 | Double-Step Machine Learning Based Procedure for HFOs Detection and Classification. <i>Brain Sciences</i> , 2020, 10, 220.  | 1.1 | 19        |
| 21 | Assessment of Athletes'™ Attitude: Physiological Evaluation via Wearable Sensors during Grappling Competitions. , 2020, 2020, 584-587.  |     | 2         |
| 22 | 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.               | 0.4 | 0         |
| 23 | 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.    | 1.0 | 60        |
| 24 | Toward a cooperation index based on EEG-workload causality: preliminary findings on aerospace-like tasks. , 2019, 2019, 4554-4557.  |     | 2         |
| 25 | How Neurophysiological Measures Can be Used to Enhance the Evaluation of Remote Tower Solutions. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 303.  | 1.0 | 23        |
| 26 | Antismoking Campaigns'™ Perception and Gender Differences: A Comparison among EEG Indices. <i>Computational Intelligence and Neuroscience</i> , 2019, 2019, 1-9.  | 1.1 | 16        |
| 27 | 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. | 0.9 | 18        |
| 28 | Correlation and Similarity between Cerebral and Non-Cerebral Electrical Activity for User's™ States Assessment. <i>Sensors</i> , 2019, 19, 704.   | 2.1 | 23        |
| 29 | 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.                         | 3.7 | 8         |
| 30 | 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, 1365.                          | 2.1 | 117       |
| 31 | EEG-Based Mental Workload Assessment During Real Driving. , 2019, , 121-126.  |     | 10        |
| 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.                     | 0.4 | 6         |
| 33 | Investigating Multimodal Augmentations Contribution to Remote Control Tower Contexts for Air Traffic Management. , 2019, , .  |     | 3         |
| 34 | 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.                             | 0.4 | 9         |
| 35 | Human-Machine Interaction Assessment by Neurophysiological Measures: A Study on Professional Air Traffic Controllers. , 2018, 2018, 4619-4622.  |     | 11        |
| 36 | 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.                               | 1.0 | 100       |

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|----|--|------|-----------|
| 37 | Neurophysiological Profile of Antismoking Campaigns. Computational Intelligence and Neuroscience, 2018, 2018, 1-11.  | 1.1  | 16        |
| 38 | Neurophysiological Responses to Different Product Experiences. Computational Intelligence and Neuroscience, 2018, 2018, 1-10.  | 1.1  | 34        |
| 39 | Passive BCI beyond the lab: current trends and future directions. Physiological Measurement, 2018, 39, 08TR02.   | 1.2  | 151       |
| 40 | Human Factors and Neurophysiological Metrics in Air Traffic Control: A Critical Review. IEEE Reviews in Biomedical Engineering, 2017, 10, 250-263.   | 13.1 | 75        |
| 41 | Passive BCI in Operational Environments: Insights, Recent Advances, and Future Trends. IEEE Transactions on Biomedical Engineering, 2017, 64, 1431-1436.   | 2.5  | 111       |
| 42 | Preliminary Concepts. Biosystems and Biorobotics, 2017, , 13-27.   | 0.2  | 1         |
| 43 | Mental States in Aviation. Biosystems and Biorobotics, 2017, , 29-56.  | 0.2  | 4         |
| 44 | Neurophysiological Signals Processing. Biosystems and Biorobotics, 2017, , 83-113.   | 0.2  | 0         |
| 45 | Industrial Neuroscience in Aviation. Biosystems and Biorobotics, 2017, , .   | 0.2  | 14        |
| 46 | EEG-Based Cognitive Control Behaviour Assessment: an Ecological study with Professional Air Traffic Controllers. Scientific Reports, 2017, 7, 547.   | 1.6  | 87        |
| 47 | How the workload impacts on cognitive cooperation: A pilot study. , 2017, 2017, 3961-3964.   |      | 3         |
| 48 | EEG-based Approach-Withdrawal index for the pleasantness evaluation during taste experience in realistic settings. , 2017, 2017, 3228-3231.  |      | 20        |
| 49 | A New Perspective for the Training Assessment: Machine Learning-Based Neurometric for Augmented User's Evaluation. Frontiers in Neuroscience, 2017, 11, 325.   | 1.4  | 36        |
| 50 | Brain Interaction during Cooperation: Evaluating Local Properties of Multiple-Brain Network. Brain Sciences, 2017, 7, 90.  | 1.1  | 43        |
| 51 | Advances in Eye Tracking Technology: Theory, Algorithms, and Applications. Computational Intelligence and Neuroscience, 2016, 2016, 1-2.   | 1.1  | 10        |
| 52 | 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. | 1.0  | 153       |
| 53 | Neurophysiological measures for users' training objective assessment during simulated robot-assisted laparoscopic surgery. , 2016, 2016, 981-984.  |      | 13        |
| 54 | A new regression-based method for the eye blinks artifacts correction in the EEG signal, without using any EOG channel. , 2016, 2016, 3187-3190.   |      | 69        |

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|----|--|-----|-----------|
| 55 | 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.                                | 0.9 | 96        |
| 56 | Quantitative Assessment of the Training Improvement in a Motor-Cognitive Task by Using EEG, ECG and EOG Signals. <i>Brain Topography</i> , 2016, 29, 149-161.  | 0.8 | 59        |
| 57 | 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, 1503-1513.  | 1.6 | 37        |
| 58 | Training-induced changes in information transfer efficiency of the brain network: A functional connectome approach. , 2015, , .  |     | 5         |
| 59 | Cooperation driven coherence: Brains working hard together. , 2015, 2015, 4696-9.  |     | 9         |
| 60 | Avionic technology testing by using a cognitive neurometric index: A study with professional helicopter pilots. , 2015, 2015, 6182-5.  |     | 34        |
| 61 | Reliability over time of EEG-based mental workload evaluation during Air Traffic Management (ATM) tasks. , 2015, 2015, 7242-5.   |     | 35        |
| 62 | P300 latency jitter occurrence in patients with disorders of consciousness: Toward a better design for Brain Computer Interface applications. , 2015, 2015, 6178-81.   |     | 6         |
| 63 | Mental workload estimations in unilateral deafened children. , 2015, 2015, 1654-7.   |     | 32        |
| 64 | 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-S61. | 0.5 | 49        |
| 65 | On the Use of Cognitive Neurometric Indexes in Aeronautic and Air Traffic Management Environments. <i>Lecture Notes in Computer Science</i> , 2015, , 45-56.   | 1.0 | 24        |
| 66 | Towards a multimodal bioelectrical framework for the online mental workload evaluation. , 2014, 2014, 3001-4.  |     | 26        |
| 67 | A neurophysiological training evaluation metric for Air Traffic Management. , 2014, 2014, 3005-8.  |     | 16        |
| 68 | The great beauty: A neuroaesthetic study by neuroelectric imaging during the observation of the real Michelangelo's Moses sculpture. , 2014, 2014, 6965-8.   |     | 7         |
| 69 | Influence of P300 latency jitter on event related potential-based brain-computer interface performance. <i>Journal of Neural Engineering</i> , 2014, 11, 035008.   | 1.8 | 54        |
| 70 | Self-calibration algorithm in an asynchronous P300-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2014, 11, 035004.  | 1.8 | 25        |
| 71 | Evaluation of the workload and drowsiness during car driving by using high resolution EEG activity and neurophysiologic indices. , 2014, 2014, 6238-41.  |     | 34        |
| 72 | Asynchronous gaze-independent event-related potential-based brain-computer interface. <i>Artificial Intelligence in Medicine</i> , 2013, 59, 61-69.  | 3.8 | 35        |

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|----|--|-----|-----------|
| 73 | Frontal EEG theta changes assess the training improvements of novices in flight simulation tasks. , 2013, 2013, 6619-22.   |     | 37        |
| 74 | Control or no-control? reducing the gap between Brain-Computer Interface and classical input devices. , 2012, 2012, 1815-8.                                      |     | 2         |
| 75 | EEG-based Brain-Computer Interface to support post-stroke motor rehabilitation of the upper limb. , 2012, 2012, 4112-5.  |     | 76        |
| 76 | A comparison of classification techniques for a gaze-independent P300-based brainâ€“computer interface. Journal of Neural Engineering, 2012, 9, 045012.          | 1.8 | 37        |
| 77 | A covert attention P300-based brainâ€“computer interface: Geospell. Ergonomics, 2012, 55, 538-551.   | 1.1 | 69        |
| 78 | P300-based brainâ€“computer interface for environmental control: an asynchronous approach. Journal of Neural Engineering, 2011, 8, 025025.                       | 1.8 | 88        |
| 79 | Asynchronous P300-Based Brain-Computer Interface to Control a Virtual Environment: Initial Tests on End Users. Clinical EEG and Neuroscience, 2011, 42, 219-224. | 0.9 | 90        |
| 80 | EEG-Based Index for Timely Detecting Userâ€™s Drowsiness Occurrence in Automotive Applications. Frontiers in Human Neuroscience, 0, 16, .                        | 1.0 | 10        |
| 81 | Evaluation of a New Lightweight EEG Technology for Translational Applications of Passive Brain-Computer Interfaces. Frontiers in Human Neuroscience, 0, 16, .    | 1.0 | 15        |