

Gabriel Pires

List of Publications by Year in descending order

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50
papers

1,166
citations

758635

12
h-index

642321

23
g-index

54
all docs

54
docs citations

54
times ranked

1084
citing authors

#	ARTICLE	IF	CITATIONS
1	A Wheelchair Steered through Voice Commands and Assisted by a Reactive Fuzzy-Logic Controller. Journal of Intelligent and Robotic Systems: Theory and Applications, 2002, 34, 301-314.	2.0	123
2	Statistical spatial filtering for a P300-based BCI: Tests in able-bodied, and patients with cerebral palsy and amyotrophic lateral sclerosis. Journal of Neuroscience Methods, 2011, 195, 270-281.	1.3	116
3	Automatic sleep staging: A computer assisted approach for optimal combination of features and polysomnographic channels. Expert Systems With Applications, 2013, 40, 7046-7059.	4.4	107
4	Comparison of a row-column speller vs. a novel lateral single-character speller: Assessment of BCI for severe motor disabled patients. Clinical Neurophysiology, 2012, 123, 1168-1181.	0.7	88
5	Assisted navigation for a brain-actuated intelligent wheelchair. Robotics and Autonomous Systems, 2013, 61, 245-258.	3.0	82
6	Visual P300-based BCI to steer a wheelchair: A Bayesian approach. , 2008, 2008, 658-61.		58
7	Double ErrP Detection for Automatic Error Correction in an ERP-Based BCI Speller. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 26-36.	2.7	53
8	Playing Tetris with non-invasive BCI. , 2011, , .		48
9	A two-step automatic sleep stage classification method with dubious range detection. Computers in Biology and Medicine, 2015, 59, 42-53.	3.9	47
10	A Self-Paced BCI With a Collaborative Controller for Highly Reliable Wheelchair Driving: Experimental Tests With Physically Disabled Individuals. IEEE Transactions on Human-Machine Systems, 2021, 51, 109-119.	2.5	42
11	Efficient feature selection for sleep staging based on maximal overlap discrete wavelet transform and SVM. , 2011, 2011, 3306-9.		41
12	A New Hybrid Motion Planner: Applied in a Brain-Actuated Robotic Wheelchair. IEEE Robotics and Automation Magazine, 2016, 23, 82-93.	2.2	38
13	Cross-Subject Zero Calibration Driver's Drowsiness Detection: Exploring Spatiotemporal Image Encoding of EEG Signals for Convolutional Neural Network Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 905-915.	2.7	33
14	Pure visual imagery as a potential approach to achieve three classes of control for implementation of BCI in non-motor disorders. Journal of Neural Engineering, 2017, 14, 046026.	1.8	29
15	Wheelchair navigation assisted by Human-Machine shared-control and a P300-based Brain Computer Interface. , 2011, , .		26
16	Evaluation of Brain-computer Interfaces in Accessing Computer and other Devices by People with Severe Motor Impairments. Procedia Computer Science, 2012, 14, 283-292.	1.2	25
17	GIBS block speller: Toward a gaze-independent P300-based BCI. , 2011, 2011, 6360-4.		17
18	Emotional state detection based on EMG and EOG biosignals: A short survey. , 2017, , .		17

#	ARTICLE	IF	CITATIONS
19	Toward a reliable gaze-independent hybrid BCI combining visual and natural auditory stimuli. Journal of Neuroscience Methods, 2016, 261, 47-61.	1.3	12
20	Towards natural interaction in immersive reality with a cyber-glove. , 2019, , .		12
21	A spacecraft game controlled with a brain-computer interface using SSVEP with phase tagging. , 2013, , .		11
22	VITASENIOR-MT: a telehealth solution for the elderly focused on the interaction with TV. , 2018, , .		11
23	A Brain Computer Interface methodology based on a visual P300 paradigm. , 2009, , .		10
24	Robust Single Trial Identification of Conscious Percepts Triggered by Sensory Events of Variable Saliency. PLoS ONE, 2014, 9, e86201.	1.1	10
25	Facial Expression Recognition based on EOG toward Emotion Detection for Human-Robot Interaction. , 2015, , .		10
26	CNN-based Approaches For Cross-Subject Classification in Motor Imagery: From the State-of-The-Art to DynamicNet. , 2021, , .		10
27	Head-movement interface for wheelchair driving based on inertial sensors. , 2019, , .		9
28	RobChair - A Semi-Autonomous Wheelchair for Disabled People. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 509-513.	0.4	7
29	Single-Trial EEG Classification of Movement Related Potential. , 2007, , .		7
30	RobChair: Experiments evaluating Brain-Computer Interface to steer a semi-autonomous wheelchair. , 2012, , .		7
31	VITASENIOR-MT: A distributed and scalable cloud-based telehealth solution. , 2019, , .		7
32	Spatial filtering based on Riemannian distance to improve the generalization of ErrP classification. Neurocomputing, 2022, 470, 236-246.	3.5	5
33	Wheelchair navigation assisted by human-machine shared-control and a P300-based Brain Computer Interface. , 2011, , .		4
34	Generalization of ErrP-Calibration for Different Error-Rates in P300-Based BCIs. , 2018, , .		4
35	Measuring the impact of reinforcement learning on an electrooculography-only computer game. , 2018, , .		4
36	Detection of Stressful Situations Using GSR While Driving a BCI-controlled Wheelchair. , 2019, 2019, 1651-1656.		4

#	ARTICLE	IF	CITATIONS
37	Assistive Robotic Hand Orthosis (ARHO) controlled with EMG: evaluation of a preliminary prototype. , 2019, , .		4
38	A Reinforcement Learning Assisted Eye-Driven Computer Game Employing a Decision Tree-Based Approach and CNN Classification. IEEE Access, 2021, 9, 46011-46021.	2.6	4
39	Visuo-auditory stimuli with semantic, temporal and spatial congruence for a P300-based BCI: An exploratory test with an ALS patient in a completely locked-in state. Journal of Neuroscience Methods, 2022, 379, 109661.	1.3	4
40	P300 spatial filtering and coherence-based channel selection. , 2009, , .		3
41	Telehealth monitoring of a hypertensive elderly patient with the new VITASENIOR-MT system: a case study. Blood Pressure Monitoring, 2020, 25, 227-230.	0.4	3
42	Usability of a telehealth solution based on TV interaction for the elderly: the VITASENIOR-MT case study. Universal Access in the Information Society, 2023, 22, 525-536.	2.1	3
43	Recognition of human activity based on sparse data collected from smartphone sensors*. , 2019, , .		2
44	Tracking human routines towards adaptive monitoring: the MOVIDA.domus platform. Procedia Computer Science, 2018, 138, 41-48.	1.2	1
45	Naturally embedded SSVEP phase tagging in a P300-based BCI: LSC-4Q speller*. , 2019, , .		1
46	Reinforcement Learning Motion Planning for an EOG-centered Robot Assisted Navigation in a Virtual Environment. , 2019, , .		1
47	Development of a Biomechanical Bike with Assistive Technologies to Be Used for Rehabilitation. Advances in Intelligent Systems and Computing, 2019, , 968-973.	0.5	0
48	A User Identification System based on Code-modulated Visual Evoked Potentials with LED Stimulation. , 2021, , .		0
49	BRAIN COMPUTER INTERFACE APPROACHES TO CONTROL MOBILE ROBOTIC DEVICES. , 2008, , .		0
50	Prescribe and Monitor Physical Activity Through a Community-Based eHealth Program: MOVIDA Platform. IFMBE Proceedings, 2020, , 13-19.	0.2	0