Luzheng Bi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1909959/publications.pdf

Version: 2024-02-01

74 papers	1,404 citations	471061 17 h-index	360668 35 g-index
75 all docs	75 docs citations	75 times ranked	1153 citing authors

#	Article	IF	Citations
1	EEG-Based Brain-Controlled Mobile Robots: A Survey. IEEE Transactions on Human-Machine Systems, 2013, 43, 161-176.	2.5	299
2	A review on EMG-based motor intention prediction of continuous human upper limb motion for human-robot collaboration. Biomedical Signal Processing and Control, 2019, 51, 113-127.	3.5	236
3	Using a Head-up Display-Based Steady-State Visually Evoked Potential Brainâ€“Computer Interface to Control a Simulated Vehicle. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 959-966.	4.7	81
4	A Brainâ€“Computer Interface-Based Vehicle Destination Selection System Using P300 and SSVEP Signals. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 274-283.	4.7	64
5	EEG-Based Detection of Driver Emergency Braking Intention for Brain-Controlled Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1766-1773.	4.7	57
6	A Head-Up Display-Based P300 Brainâ€“Computer Interface for Destination Selection. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1996-2001.	4.7	53
7	A speed and direction-based cursor control system with P300 and SSVEP. Biomedical Signal Processing and Control, 2014, 14, 126-133.	3.5	37
8	Queuing Network Modeling of Driver Lateral Control With or Without a Cognitive Distraction Task. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1810-1820.	4.7	34
9	Application and Contrast in Brain-Computer Interface between Hilbert-Huang Transform and Wavelet Transform. , 2008, , .		31
10	Queuing Network Modeling of Driver EEG Signals-Based Steering Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1117-1124.	2.7	31
11	Detecting Driver Normal and Emergency Lane-Changing Intentions With Queuing Network-Based Driver Models. International Journal of Human-Computer Interaction, 2015, 31, 139-145.	3.3	28
12	Model Predictive-Based Shared Control for Brain-Controlled Driving. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 630-640.	4.7	28
13	A Novel Method of Emergency Situation Detection for a Brain-Controlled Vehicle by Combining EEG Signals With Surrounding Information. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1926-1934.	2.7	27
14	Using Image-Based Metrics to Model Pedestrian Detection Performance With Night-Vision Systems. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 155-164.	4.7	25
15	EEG-Based Adaptive Driver-Vehicle Interface Using Variational Autoencoder and PI-TSVM. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 2025-2033.	2.7	25
16	Development of a Driver Lateral Control Model by Integrating Neuromuscular Dynamics Into the Queuing Network-Based Driver Model. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2479-2486.	4.7	24
17	EEG Signals-Based Longitudinal Control System for a Brain-Controlled Vehicle. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 323-332.	2.7	22
18	Using the Support Vector Regression Approach to Model Human Performance. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2011, 41, 410-417.	3.4	20

#	Article	IF	Citations
19	Decoding Single-Hand and Both-Hand Movement Directions From Noninvasive Neural Signals. IEEE Transactions on Biomedical Engineering, 2021, 68, 1932-1940.	2.5	20
20	Effects of Symmetry and Number of Compositional Elements on Chinese Users' Aesthetic Ratings of Interfaces: Experimental and Modeling Investigations. International Journal of Human-Computer Interaction, 2011, 27, 245-259.	3.3	19
21	Sliding-Mode Nonlinear Predictive Control of Brain-Controlled Mobile Robots. IEEE Transactions on Cybernetics, 2022, 52, 5419-5431.	6.2	17
22	Combined Lateral and Longitudinal Control of EEG Signals-Based Brain-Controlled Vehicles. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1732-1742.	2.7	16
23	Human Behavior Model-Based Predictive Control of Longitudinal Brain-Controlled Driving. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1361-1374.	4.7	16
24	Using Queuing Network and Logistic Regression to Model Driving with a Visual Distraction Task. International Journal of Human-Computer Interaction, 2014, 30, 32-39.	3.3	14
25	Study on Real-time Detection of Alertness Based on EEG. , 2007, , .		13
26	Using EEG to recognize emergency situations for brain-controlled vehicles. , 2015, , .		13
27	A shared controller for brain-controlled assistive vehicles. , 2016, , .		12
28	A Novel Event-Related Potential-Based Brainâ€“Computer Interface for Continuously Controlling Dynamic Systems. IEEE Access, 2019, 7, 38721-38729.	2.6	12
29	EMG-Based 3D Hand Motor Intention Prediction for Information Transfer from Human to Robot. Sensors, 2021, 21, 1316.	2.1	11
30	Inferring driver intentions using a driver model based on queuing network. , 2013, , .		10
31	Detecting emergency situations by monitoring drivers' states from EEG. , 2012, , .		9
32	A novel EEG-based detection method of emergency situations for assistive vehicles. , 2017, , .		8
33	Model predictive control for a brain-controlled mobile robot. , 2017, , .		8
34	Mathematical Modeling of EEG Signals-Based Brain-Control Behavior. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1535-1543.	2.7	8
35	A visionâ€based surface displacement/strain measurement technique based on robust edgeâ€enhanced transform and algorithms for high spatial resolution. Structural Control and Health Monitoring, 2021, 28, e2797.	1.9	7
36	A brain-computer interface in the context of a head up display system. , 2012, , .		6

#	Article	IF	Citations
37	Noninvasive neural signal-based detection of soft and emergency braking intentions of drivers. Biomedical Signal Processing and Control, 2022, 72, 103330.	3.5	6
38	Detection of Emergency Braking Intention From Soft Braking and Normal Driving Intentions Using EMG Signals. IEEE Access, 2021, 9, 131637-131647.	2.6	5
39	Hierarchical Decoding Model of Upper Limb Movement Intention From EEG Signals Based on Attention State Estimation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2008-2016.	2.7	5
40	Effects of illumination and noise on the performance of a P300 brain-computer interface for assistive vehicles. , 2017, , .		4
41	EEG-based Universal Prediction Model of Emergency Braking Intention for Brain-controlled Vehicles*. , 2019, , .		4
42	Using Non-linear Dynamics of EEG Signals to Classify Primary Hand Movement Intent Under Opposite Hand Movement. Frontiers in Neurorobotics, 2022, 16, 845127.	1.6	4
43	A driver-vehicle interface based on ERD/ERS potentials and alpha rhythm. , 2014, , .		3
44	Neural Signature and Classification of Emergency Braking Intention Based on Effective Connectivity. , 2018, , .		3
45	An EEG-Based Multi-Classification Method of Braking Intentions for Driver-Vehicle Interaction. , 2019, , .		3
46	Brain-Controlled Leader-Follower Robot Formation Based on Model Predictive Control. , 2020, , .		3
47	A Single-Trial Event-Related Potential Estimation Based on Independent Component Analysis and Kalman Smoother. , 2018, , .		2
48	EEG-Based Recognition Method of Intentional and Unintentional Hand Movement. , 2019, , .		2
49	Neural correlates and detection of braking intention under critical situations based on the power spectra of electroencephalography signals. Science China Information Sciences, 2020, 63, 1.	2.7	2
50	Fuzzy-Based Shared Control for Brain-controlled Mobile Robot. , 2020, , .		2
51	Detection of Driver Emergency Steering Intention Using EMG Signal. , 2020, , .		2
52	Driving Intention Decoding from EMG Signals for Human-Vehicle Interaction. , 2020, , .		2
53	Modeling Driver Vehicle Control in a Cognitive Architecture. , 2011, , .		1
54	A new SSVEP brain-computer interface based on a head up display. , 2013, , .		1

#	Article	IF	Citations
55	A Driver Lateral and Longitudinal Control Model Based on Queuing Network Cognitive Architecture. , 2013, , .		1
56	Dual-Task Modeling of Driving Lateral Control with a Motor Distraction Task. , 2014, , .		1
57	Modeling of Human Operator Behavior for Brain-Actuated Mobile Robots Steering. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2063-2072.	2.7	1
58	Discrete-Time Integral Sliding Mode Control for Brain-Controlled Mobile Robots. , 2020, , .		1
59	Hand Movement Direction Decoding from EEG Signals under Dual Movement Tasks. , 2020, , .		1
60	Using Noninvasive Neural Signal to Recognize Single- and Multi-task States of Operators. , 2020, , .		1
61	Detecting Driver Cognition Alertness State From Visual Activities in Normal and Emergency Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19497-19510.	4.7	1
62	A Novel Control Framework of Brain-Controlled Vehicle Based on Fuzzy Logic and Model Predictive Control. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21777-21789.	4.7	1
63	Effects of Cognitive Distraction on Upper Limb Movement Decoding From EEG Signals. IEEE Transactions on Biomedical Engineering, 2023, 70, 166-174.	2.5	1
64	Using Bayesian Networks with Human Personality and Situation Information to Detect Emotion States from EEG. , 2013, , .		0
65	A SSVEP brain-computer interface with the hybrid stimuli of SSVEP and P300. , 2013, , .		0
66	A P300 brain-computer interface for controlling a mobile robot by issuing a motion command. , 2013, , .		0
67	Queuing network modeling of brain-controlled vehicles. , 2015, , .		0
68	A brain signals-based interface between drivers and in-vehicle devices. , 2016, , .		0
69	Motion velocity estimation from electroencephalography signals with extreme learning machine. , 2017, , .		0
70	Parallel tracker for visual object tracking. , 2018, , .		0
71	An Experience of Teaching Advanced Control Engineering (ACE) for Postgraduate Students. Lecture Notes in Computer Science, 2021, , 255-264.	1.0	0
72	Adaptive Brain-Machine Interface of Brain-Controlled Vehicles Using Semi-MIM and TSVM. , 2021, , .		0

#	Article	IF	Citations
73	Edge-guided Adversarial Network Based on Contrastive Learning for Image-to-Image Translation. , 2021, , .		0
74	Detection Method of Targets in Videos Using Non-Invasive Brain-Computer Interface. , 2021, , .		0