Kwee-Bo Sim

List of Publications by Year
in descending order

68
papers

717
citations

1162367
8
h-index

676716
22
g-index

68
all docs

68
docs citations

68
times ranked

666
citing authors

#	Article	IF	Citations
1	Parameter-setting-free harmony search algorithm. Applied Mathematics and Computation, 2010, 217, 3881-3889.	1.4	185
2	Emotion recognition using EEG signals with relative power values and Bayesian network. International Journal of Control, Automation and Systems, 2009, 7, 865-870.	1.6	105
3	Optimal hyperparameter tuning of convolutional neural networks based on the parameter-setting-free harmony search algorithm. Optik, 2018, 172, 359-367.	1.4	76
4	Genetic Algorithm Based Feature Selection Method Development for Pattern Recognition. , 2006, , .		25
5	Development of a Facial Emotion Recognition Method Based on Combining AAM with DBN. , 2010, , .		25
6	Development of context aware system based on Bayesian network driven context reasoning method and ontology context modeling. , 2008, , .		19
7	Emotion recognition and acoustic analysis from speech signal. , 0, , .		17
8	Classification of color imagination using Emotiv EPOC and event-related potential in electroencephalogram. Optik, 2016, 127, 9711-9718.	1.4	17
9	Solution of multiobjective optimization problems: coevolutionary algorithm based on evolutionary game theory. Artificial Life and Robotics, 2004, 8, 174-185.	0.7	15
10	Design of Fuzzy Controller Using Schema Coevolutionary Algorithm. IEEE Transactions on Fuzzy Systems, 2004, 12, 565-568.	6.5	13
11	A particular object tracking in an environment of multiple moving objects. , 2010, , .		13
12	Realization of cooperative strategies and swarm behavior in distributed autonomous robotic systems using artificial immune system. , 0, , .		11
13	ERS and ERD analysis during the imaginary movement of arms. , 2008, , .		11
14	EEG electrode selection method based on BPSO with channel impact factor for acquisition of significant brain signal. Optik, 2018, 155, 89-96.	1.4	11
15	SLAM of mobile robot in the indoor environment with Digital Magnetic Compass and Ultrasonic Sensors. , 2007, , .		9
16	Novel Intersection Type Recognition for Autonomous Vehicles Using a Multi-Layer Laser Scanner. Sensors, 2016, 16, 1123.	2.1	9
17	Feature classification of EEG signal with binary heuristic optimization algorithms. , 2013, , .		8
18	Heuristic feature extraction method for BCI with harmony search and discrete wavelet transform. International Journal of Control, Automation and Systems, 2016, 14, 1582-1587.	1.6	8

#	Article	IF	Citations
19	Symmetrical feature for interpreting motor imagery EEG signals in the brain–computer interface. Optik, 2017, 129, 163-171.	1.4	8
20	Design and Hardware Implementation of a Simplified DAG-Based Blockchain and New AES-CBC Algorithm for IoT Security. Electronics (Switzerland), 2021, 10, 1127.	1.8	8
21	Advanced Parameter-Setting-Free Harmony Search Algorithm. Applied Sciences (Switzerland), 2020, 10, 2586.	1.3	7
22	Fuzzy classifier system for edge detection. , 0, , .		6
23	A study on the analysis of auditory cortex active status by music genre: Drawing on EEG. , 2011, , .		6
24	Evolutionary neural networks for time series prediction based on L-system and DNA coding method. , 0, , .		5
25	Artificial immune-based swarm behaviors of distributed autonomous robotic systems. , 0, , .		5
26	Simultaneous Localization and Map building using Vision Camera and Electrical Compass. , 2006, , .		5
27	Real-time face detection using AdaBoot algorithm. , 2008, , .		5
28	Development of the facial feature extraction and emotion recognition method based on ASM and Bayesian network. , 2009, , .		5
29	A study on hybrid model of HMMs and GMMs for mirror neuron system modeling using EEG signals. , 2011, , .		5
30	Imitative Neural Mechanism-Based Behavior Intention Recognition System in Human–Robot Interaction. International Journal of Humanoid Robotics, 2014, 11, 1442008.	0.6	5
31	Robot Control based on Steady-State Visual Evoked Potential using Arduino and Emotiv Epoc. Journal of Korean Institute of Intelligent Systems, 2015, 25, 254-259.	0.0	5
32	Variance considered machines: Modification of optimal hyperplanes in support vector machines. , 2009, , .		4
33	Facial emotion recognition using a combining AAM with DBN. , 2010, , .		4
34	Harmony search-based hidden Markov model optimization for online classification of single trial eegs during motor imagery tasks. International Journal of Control, Automation and Systems, 2013, 11, 608-613.	1.6	4
35	HSA-based HMM Optimization Method for Analyzing EEG Pattern of Motor Imagery. Journal of Institute of Control, Robotics and Systems, 2011, 17, 747-752.	0.1	4
36	Evolving chaotic neural systems for time series prediction. , 0, , .		3

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37	Performance improvement of evolution strategies using reinforcement learning. , 1999, , .		3
38	Dynamic behavior control of autonomous mobile robots using schema co-evolutionary algorithm. , 0, , .		3
39	Behavior learning and evolution of swarm robot system using SVM. , 2007, , .		3
40	Superiority demonstration of variance-considered machines by comparing error rate with support vector machines. International Journal of Control, Automation and Systems, 2011, 9, 595-600.	1.6	3
41	Optimal EEG feature selection by genetic algorithm for classification of imagination of hand movement. , 2012, , .		3
42	Electroencephalography Signal Grouping and Feature Classification Using Harmony Search for BCI. Journal of Applied Mathematics, 2013, 2013, 1-9.	0.4	3
43	Multi-tasking deep convolutional network architecture design for extracting nonverbal communicative information from a face. Cognitive Systems Research, 2018, 52, 658-667.	1.9	3
44	Training HMM Structure and Parameters with Genetic Algorithm and Harmony Search Algorithm. Journal of Electrical Engineering and Technology, 2012, 7, 109-114.	1.2	3
45	EEG Feature Classification Based on Grip Strength for BCI Applications. International Journal of Fuzzy Logic and Intelligent Systems, 2015, 15, 277-282.	0.6	3
46	Behavior evolution of autonomous mobile robot using genetic programming based on evolvable hardware. , 0, , .		2
47	Distributed moving algorithm of swarm robots to enclose an invader. , 2008, , .		2
48	Game model-based co-evolutionary algorithm with non-dominated memory and Euclidean distance selection mechanisms for multi-objective optimization. International Journal of Control, Automation and Systems, 2011, 9, 924-932.	1.6	2
49	User State Classification Based on Functional Brain Connectivity Using a Convolutional Neural Network. Electronics (Switzerland), 2021, 10, 1158.	1.8	2
50	An evolution of cellular automata neural systems using DNA coding method. , 1999, , .		1
51	Intrusion detection system using various detectors. , 0, , .		1
52	Optimal design of a 2-layer fuzzy controller using the schema co-evolutionary algorithm. , 0, , .		1
53	Development of planetary reduction motor with mechanical power monitoring and network capability. , 0, , .		1
54	Human adaptive system model development merged with context and emotion information. , 0, , .		1

#	Article	IF	Citations
55	Development of advanced Active Appearance Model for facial emotion recognition. , 2009, , .		1
56	Symmetrical model based SLAM [M-SLAM] for a quick map-search. , 2010, , .		1
57	Optimized adaptive neuro-fuzzy inference system for motor imagery EEG signals classifications. , 2011, , .		1
58	Invariant common spatial pattern advanced feature extraction in mu rhythms of EEG signals. , 2012, , .		1
59	Hybrid Model-Based Classification of the Action for Brain-Computer Interfaces. Sensor Letters, 2012, 10, 1157-1162.	0.4	1
60	Generation of CNN Architectures Using the Harmonic Search Algorithm and its Application to Classification of Damaged Sewer. IEEE Access, 2022, 10, 32150-32160.	2.6	1
61	Improvement of processing time using residue number system and sorting network in controller design. , 0, , .		0
62	The fuzzy classifier system using the implicit bucket brigade algorithm. , 0, , .		0
63	Self-organizable Bluetooth network for distributed autonomous robotic system. , 0, , .		0
64	Adaptive intrusion detection algorithm based on learning algorithm. , 0, , .		0
65	Evolvable neural networks based on developmental models for mobile robot navigation. , 0, , .		0
66	Development of advanced particle filter for localization of mobile robot. , 2010, , .		0
67	Implementing selective attention using canonical correlation analysis-based auditory steady state response. , 2013, , .		0
68	Solution of multiobjective optimization problems: revolutionary algorithm based on evolutionary game theory. Artificial Life and Robotics, 2004, 8, 174-185.	0.7	0