

# Bo Tao

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,334  
citations

201658

27  
h-index

254170

43  
g-index

49  
all docs

49  
docs citations

49  
times ranked

716  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hand gesture recognition based on convolution neural network. Cluster Computing, 2019, 22, 2719-2729.	5.0	158
2	Intelligent human computer interaction based on non redundant EMG signal. AEJ - Alexandria Engineering Journal, 2020, 59, 1149-1157.	6.4	153
3	Surface EMG hand gesture recognition system based on PCA and GRNN. Neural Computing and Applications, 2020, 32, 6343-6351.	5.6	138
4	Intelligent Human-Computer Interaction Based on Surface EMG Gesture Recognition. IEEE Access, 2019, 7, 61378-61387.	4.2	135
5	Gesture recognition based on skeletonization algorithm and CNN with ASL database. Multimedia Tools and Applications, 2019, 78, 29953-29970.	3.9	131
6	Gesture recognition based on binocular vision. Cluster Computing, 2019, 22, 13261-13271.	5.0	111
7	Gesture recognition based on an improved local sparse representation classification algorithm. Cluster Computing, 2019, 22, 10935-10946.	5.0	82
8	Probability analysis for grasp planning facing the field of medical robotics. Measurement: Journal of the International Measurement Confederation, 2019, 141, 227-234.	5.0	80
9	Genetic Algorithm-Based Trajectory Optimization for Digital Twin Robots. Frontiers in Bioengineering and Biotechnology, 2021, 9, 793782.	4.1	73
10	Dynamic Gesture Recognition Using Surface EMG Signals Based on Multi-Stream Residual Network. Frontiers in Bioengineering and Biotechnology, 2021, 9, 779353.	4.1	68
11	Self-Tuning Control of Manipulator Positioning Based on Fuzzy PID and PSO Algorithm. Frontiers in Bioengineering and Biotechnology, 2021, 9, 817723.	4.1	68
12	Gear reducer optimal design based on computer multimedia simulation. Journal of Supercomputing, 2020, 76, 4132-4148.	3.6	63
13	Grip strength forecast and rehabilitative guidance based on adaptive neural fuzzy inference system using sEMG. Personal and Ubiquitous Computing, 2022, 26, 1215-1224.	2.8	61
14	Gesture recognition based on modified adaptive orthogonal matching pursuit algorithm. Cluster Computing, 2019, 22, 503-512.	5.0	56
15	Self-adjusting force/bit blending control based on quantitative factor-scale factor fuzzy-PID bit control. AEJ - Alexandria Engineering Journal, 2022, 61, 4389-4397.	6.4	56
16	Enhancement of $\langle \text{real-time} \rangle$ grasp detection by cascaded deep convolutional neural networks. Concurrency Computation Practice and Experience, 2021, 33, e5976.	2.2	55
17	Grasping posture of humanoid manipulator based on target shape analysis and force closure. AEJ - Alexandria Engineering Journal, 2022, 61, 3959-3969.	6.4	55
18	Improved single shot multibox detector target detection method based on deep feature fusion. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	55

#	ARTICLE	IF	CITATIONS
19	Multi-object intergroup gesture recognition combined with fusion feature and KNN algorithm. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2725-2735.	1.4	50
20	Hand medical monitoring system based on machine learning and optimal EMG feature set. Personal and Ubiquitous Computing, 2023, 27, 1991-2007.	2.8	48
21	Intelligent Detection of Steel Defects Based on Improved Split Attention Networks. Frontiers in Bioengineering and Biotechnology, 2021, 9, 810876.	4.1	48
22	Low-Illumination Image Enhancement Algorithm Based on Improved Multi-Scale Retinex and ABC Algorithm Optimization. Frontiers in Bioengineering and Biotechnology, 2022, 10, 865820.	4.1	47
23	Gesture recognition based on multilevel multimodal feature fusion. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2539-2550.	1.4	45
24	Dynamic Gesture Recognition Algorithm Based on 3D Convolutional Neural Network. Computational Intelligence and Neuroscience, 2021, 2021, 1-12.	1.7	45
25	A Tandem Robotic Arm Inverse Kinematic Solution Based on an Improved Particle Swarm Algorithm. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	40
26	Time Optimal Trajectory Planing Based on Improved Sparrow Search Algorithm. Frontiers in Bioengineering and Biotechnology, 2022, 10, 852408.	4.1	39
27	Numerical simulation of thermal insulation and longevity performance in new lightweight ladle. Concurrency Computation Practice and Experience, 2020, 32, e5830.	2.2	35
28	<sc>3D</sc> reconstruction based on photoelastic fringes. Concurrency Computation Practice and Experience, 2022, 34, e6481.	2.2	35
29	Attitude Stabilization Control of Autonomous Underwater Vehicle Based on Decoupling Algorithm and PSO-ADRC. Frontiers in Bioengineering and Biotechnology, 2022, 10, 843020.	4.1	35
30	Photoelastic Stress Field Recovery Using Deep Convolutional Neural Network. Frontiers in Bioengineering and Biotechnology, 2022, 10, 818112.	4.1	33
31	Manipulator trajectory planning based on work subspace division. Concurrency Computation Practice and Experience, 2022, 34, e6710.	2.2	32
32	Wrist angle prediction under different loads based on <sc>GA&EELM</sc> neural network and surface electromyography. Concurrency Computation Practice and Experience, 2022, 34, e6574.	2.2	30
33	Multiscale generative adversarial network for <sc>real&Eworld super&Eresolution</sc>. Concurrency Computation Practice and Experience, 2021, 33, e6430.	2.2	27
34	Quantitatively measurement and analysis of residual stresses in molded aspherical glass lenses. International Journal of Advanced Manufacturing Technology, 2014, 74, 1167-1174.	3.0	20
35	A Time Sequence Images Matching Method Based on the Siamese Network. Sensors, 2021, 21, 5900.	3.8	17
36	Retinal Vessel Segmentation Algorithm Based on Residual Convolution Neural Network. Frontiers in Bioengineering and Biotechnology, 2021, 9, 786425.	4.1	11

#	ARTICLE	IF	CITATIONS
37	Annealing of Compression Molded Aspherical Glass Lenses. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	2.2	10
38	Manipulator trajectory tracking based on adaptive sliding mode control. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	9
39	Absolute Phase Retrieval Using One Coded Pattern and Geometric Constraints of Fringe Projection System. Applied Sciences (Switzerland), 2018, 8, 2673.	2.5	8
40	Convolutional Neural Network Based Traffic Sign Recognition System. , 2018, , .		7
41	Self-Supervised Monocular Depth Estimation Based on Channel Attention. Photonics, 2022, 9, 434.	2.0	3
42	Half-Period Gray-Level Coding Strategy for Absolute Phase Retrieval. Photonics, 2022, 9, 492.	2.0	3
43	A novel 3D profile measurement method based on digital photoelastic technology. , 2019, , .		1
44	Polarization aberration analysis in lithographic tools. Optical Engineering, 2019, 58, 1.	1.0	1
45	Depth Estimation Using Feature Pyramid U-Net and Polarized Self-Attention for Road Scenes. Photonics, 2022, 9, 468.	2.0	1
46	Generalized Transport-of-Intensity Equation Based Space-Frequency Image Signal Analysis. , 2018, , .		0
47	Research On Image Segmentation Based On Support Vector Machine. , 2018, , .		0
48	Visual-Based Crack Detection and Skeleton Extraction of Cement Surface. Lecture Notes in Computer Science, 2019, , 541-552.	1.3	0