

Hong Cheng

List of Publications by Year in descending order

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79
papers

1,144
citations

567281

15
h-index

501196

28
g-index

80
all docs

80
docs citations

80
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	Haptic Identification by ELM-Controlled Uncertain Manipulator. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2398-2409.	9.3	137
2	Interactive body part contrast mining for human interaction recognition. , 2014, , .		95
3	Survey on Artificial Intelligence for Vehicles. Automotive Innovation, 2018, 1, 2-14.	5.1	73
4	Learning Physical Human-Robot Interaction With Coupled Cooperative Primitives for a Lower Exoskeleton. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1566-1574.	5.2	65
5	Deep Background Modeling Using Fully Convolutional Network. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 254-262.	8.0	59
6	Simultaneously Encoding Movement and sEMG-Based Stiffness for Robotic Skill Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 1244-1252.	11.3	59
7	Evaluation of a Fuzzy-Based Impedance Control Strategy on a Powered Lower Exoskeleton. International Journal of Social Robotics, 2016, 8, 103-123.	4.6	39
8	Hierarchical Interactive Learning for a Human-Powered Augmentation Lower Exoskeleton. , 2016, , .		36
9	Sparsity-Induced Similarity Measure and Its Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 613-626.	8.3	36
10	Object-Aware Dense Semantic Correspondence. , 2017, , .		31
11	Maximum Correntropy Criterion-Based Sparse Subspace Learning for Unsupervised Feature Selection. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 404-417.	8.3	29
12	Neural Learning Enhanced Variable Admittance Control for Human-Robot Collaboration. IEEE Access, 2020, 8, 25727-25737.	4.2	29
13	Dynamic Balance Gait for Walking Assistance Exoskeleton. Applied Bionics and Biomechanics, 2018, 2018, 1-10.	1.1	26
14	The safety and feasibility of a new rehabilitation robotic exoskeleton for assisting individuals with lower extremity motor complete lesions following spinal cord injury (SCI): an observational study. Spinal Cord, 2020, 58, 787-794.	1.9	26
15	Optimisation of Reference Gait Trajectory of a Lower Limb Exoskeleton. International Journal of Social Robotics, 2016, 8, 223-235.	4.6	25
16	Minimizing Human-Exoskeleton Interaction Force Using Compensation for Dynamic Uncertainty Error with Adaptive RBF Network. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 82, 413-433.	3.4	25
17	The relationship between physical human-exoskeleton interaction and dynamic factors: using a learning approach for control applications. Science China Information Sciences, 2014, 57, 1-13.	4.3	24
18	Pixel-to-Model Distance for Robust Background Reconstruction. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 903-916.	8.3	24

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19	End-to-End Driving Model for Steering Control of Autonomous Vehicles with Future Spatiotemporal Features. , 2019, , .		24
20	Data-Driven Reinforcement Learning for Walking Assistance Control of a Lower Limb Exoskeleton with Hemiplegic Patients. , 2020, , .		20
21	Fuzzy-based impedance regulation for control of the coupled human-exoskeleton system. , 2014, , .		19
22	Learning-based Walking Assistance Control Strategy for a Lower Limb Exoskeleton with Hemiplegia Patients. , 2018, , .		16
23	Design and Performance Evaluation of a Wearable Sensing System for Lower-Limb Exoskeleton. Applied Bionics and Biomechanics, 2018, 2018, 1-9.	1.1	14
24	Region-of-Interest based sparse feature learning method for Alzheimerâ€™s disease identification. Computer Methods and Programs in Biomedicine, 2020, 187, 105290.	4.7	13
25	Discriminative sparse subspace learning and its application to unsupervised feature selection. ISA Transactions, 2016, 61, 104-118.	5.7	12
26	Memristive Neural Networks: A Neuromorphic Paradigm for Extreme Learning Machine. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 15-23.	4.9	12
27	Data-Driven Optimal Assistance Control of a Lower Limb Exoskeleton for Hemiplegic Patients. Frontiers in Neurobotics, 2020, 14, 37.	2.8	11
28	Learning Cooperative Primitives with physical Human-Robot Interaction for a Human-powered Lower EXoskeleton. , 2016, , .		10
29	Compliant training control of ankle joint by exoskeleton with human EMG-torque interface. Assembly Automation, 2017, 37, 349-355.	1.7	10
30	c 2 AIDER : cognitive cloud exoskeleton system and its applications. Cognitive Computation and Systems, 2019, 1, 33-39.	1.4	9
31	Stair-ascent strategies and performance evaluation for a lower limb exoskeleton. International Journal of Intelligent Robotics and Applications, 2020, 4, 278-293.	2.8	9
32	Pedestrian Detection and Behavior Recognition Based on Vision. , 2019, , .		8
33	Real-Time Cloud Visual Simultaneous Localization and Mapping for Indoor Service Robots. IEEE Access, 2020, 8, 16816-16829.	4.2	8
34	On-line Walking Speed Control in Human-Powered Exoskeleton Systems Based on Dual Reaction Force Sensors. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 87, 59-80.	3.4	7
35	Model-based Control with Interaction Predicting for Human-coupled Lower Exoskeleton Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 389-400.	3.4	7
36	Learning Gait Models With Varying Walking Speeds. IEEE Robotics and Automation Letters, 2021, 6, 183-190.	5.1	7

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37	Multimodal Human-Exoskeleton Interface for Lower Limb Movement Prediction Through a Dense Co-Attention Symmetric Mechanism. <i>Frontiers in Neuroscience</i> , 2022, 16, 796290.	2.8	7
38	Design of a wearable sensing system for a lower extremity exoskeleton. , 2017, , .		6
39	Hand gesture based control strategy for mobile robots. , 2017, , .		6
40	Adaptive Gait Planning for Walking Assistance Lower Limb Exoskeletons in Slope Scenarios. , 2019, , .		5
41	Pyramid Bayesian Method for Model Uncertainty Evaluation of Semantic Segmentation in Autonomous Driving. <i>Automotive Innovation</i> , 2022, 5, 70-78.	5.1	5
42	General Recurrent Neural Network for Solving Generalized Linear Matrix Equation. <i>Complexity</i> , 2017, 2017, 1-7.	1.6	4
43	Gait Planning with Dynamic Movement Primitives for Lower Limb Exoskeleton Walking Up Stairs. , 2018, , .		4
44	Learning Coupled Parameters with Continuous Domains for Human-powered Lower Exoskeleton. , 2018, , .		4
45	Hybrid Control for Human-Powered Augmentation Exoskeleton. , 2018, , .		4
46	Standing balance maintenance by virtual suspension model control for legged robot. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402095497.	1.6	4
47	Learning Quintuplet Loss for Large-Scale Visual Geolocalization. <i>IEEE MultiMedia</i> , 2020, 27, 34-43.	1.7	3
48	A Novel Balance Control Strategy Based on Enhanced Stability Pyramid Index and Dynamic Movement Primitives for a Lower Limb Human-Exoskeleton System. <i>Frontiers in Neurorobotics</i> , 2021, 15, 751642.	2.8	3
49	Estimating 6D Object Poses with Temporal Motion Reasoning for Robot Grasping in Cluttered Scenes. <i>IEEE Robotics and Automation Letters</i> , 2024, , 1-1.	5.1	3
50	Adaptive Event-Triggered Motion Tracking Control Strategy for a Lower Limb Rehabilitation Exoskeleton. , 2021, , .		3
51	Intention recognition for exoskeleton. , 2017, , .		2
52	Enhancing subspace clustering based on dynamic prediction. <i>Frontiers of Computer Science</i> , 2019, 13, 802-812.	2.4	2
53	Learning continuous coupled multi-controller coefficients based on actor-critic algorithm for lower-limb exoskeleton. <i>Science China Information Sciences</i> , 2021, 64, 1.	4.3	2
54	Adaptive compensation for time-varying uncertainties in model-based control of lower-limb exoskeleton systems. <i>Science China Information Sciences</i> , 2021, 64, 1.	4.3	2

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55	Robust Scene Parsing by Mining Supportive Knowledge From Dataset. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2633-2646.	11.3	2
56	Bayesian view synthesis for video stitching. , 2016, , .		1
57	Muscle synergy analysis of a set of lower extremity movements in quiet standing scenario: A preliminary study. , 2016, , .		1
58	Time-varying stiffness tracking control of knee exoskeleton. , 2017, , .		1
59	Robust spatial&temporal Bayesian view synthesis for video stitching with occlusion handling. Machine Vision and Applications, 2018, 29, 219-232.	2.7	1
60	Learning Jumping Skills From Human with a Fast Reinforcement Learning Framework. , 2018, , .		1
61	EFRNet: Efficient Feature Reconstructing Network for Real-Time Scene Parsing. IEEE Transactions on Multimedia, 2022, 24, 2852-2865.	7.2	1
62	Estimating the Center of Mass of Human-Exoskeleton Systems with Physically Coupled Serial Chain. , 2021, , .		1
63	TemporalFusion: Temporal Motion Reasoning with Multi-Frame Fusion for 6D Object Pose Estimation. , 2021, , .		1
64	Synergetic Gait Prediction for Stroke Rehabilitation with Varying Walking Speeds. , 2021, , .		1
65	Editorial: Neural Interface for Cognitive Human-Robot Interaction and Collaboration. Frontiers in Neuroscience, 2022, 16, 830877.	2.8	1
66	Knee Trajectory Modulation for Impact Reducing of Lower Limb Exoskeletons. , 2021, , .		1
67	A Novel Multimodal Human-Exoskeleton Interface Based on EEG and sEMG Activity for Rehabilitation Training. , 2022, , .		1
68	Optimized trajectory recovery of on-road vehicles from monocular videos with multiple constraints. IEEE Transactions on Electrical and Electronic Engineering, 2014, 9, 200-206.	1.4	0
69	Quadratic modeling of wheeled moving platforms on planes. IEEE Transactions on Electrical and Electronic Engineering, 2016, 11, 192-197.	1.4	0
70	Unsupervised feature selection by nonnegative sparsity adaptive subspace learning. , 2016, , .		0
71	Multi-subgraph matching for logo localization using genetic algorithm. , 2016, , .		0
72	An Approximate Quadratic Programming for Efficient Bellman Equation Solution. IEEE Access, 2019, 7, 126077-126087.	4.2	0

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73	The AIDER system and its clinical applications. Science China Information Sciences, 2021, 64, 1.	4.3	0
74	Exoskeleton cloud-brain platform and its application in safety assessment. Assembly Automation, 2021, ahead-of-print, .	1.7	0
75	ESPI: Dynamic Safety Evaluation Index for Human-Exoskeleton System. , 2021, , .		0
76	Keep Safe: A Novel Static Balance Control Strategy for Lower Limb Exoskeletons. , 2020, , .		0
77	Collision Reduction Walking for Lower Limb Exoskeletons. International Journal of Humanoid Robotics, 0, , .	1.1	0
78	Weak6D: Weakly Supervised 6D Pose Estimation With Iterative Annotation Resolver. IEEE Robotics and Automation Letters, 2023, 8, 1463-1470.	5.1	0
79	Autonomous Driving-Oriented Cognitive Map Lane Generation and Location Recognition Algorithm. , 2022, , .		0