

Dapeng Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

1,177
citations

21
h-index

31
g-index

112
ext. papers

1,501
ext. citations

2.9
avg, IF

4.63
L-index

#	Paper	IF	Citations
94	A fast robotic arm gravity compensation updating approach for industrial application using sparse selection and reconstruction. <i>Robotics and Autonomous Systems</i> , 2022 , 149, 103971	3.5	4
93	Quantitative Investigation of Hand Grasp Functionality: Thumb Grasping Behavior Adapting to Different Object Shapes, Sizes, and Relative Positions. <i>Applied Bionics and Biomechanics</i> , 2021 , 2021, 2640422	1.6	1
92	Research on Virtual Training System for Intelligent Upper Limb Prosthesis with Bidirectional Neural Channels. <i>Lecture Notes in Computer Science</i> , 2021 , 314-323	0.9	
91	A Systematic Analysis of Hand Movement Functionality: Qualitative Classification and Quantitative Investigation of Hand Grasp Behavior. <i>Frontiers in Neurorobotics</i> , 2021 , 15, 658075	3.4	2
90	Human-machine shared control: New avenue to dexterous prosthetic hand manipulation. <i>Science China Technological Sciences</i> , 2021 , 64, 767-773	3.5	4
89	Electrode Design for Electrotactile Feedback With Reduced Interference to Myoelectric Signal. <i>IEEE Sensors Journal</i> , 2021 , 21, 16350-16358	4	1
88	Learning Grasp Configuration Through Object-Specific Hand Primitives for Posture Planning of Anthropomorphic Hands. <i>Frontiers in Neurorobotics</i> , 2021 , 15, 740262	3.4	
87	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	6
86	Quantitative Investigation of Hand Grasp Functionality: Hand Joint Motion Correlation, Independence, and Grasping Behavior.. <i>Applied Bionics and Biomechanics</i> , 2021 , 2021, 2787832	1.6	
85	Bio-inspired design of alternate rigid-flexible segments to improve the stiffness of a continuum manipulator. <i>Science China Technological Sciences</i> , 2020 , 63, 1549-1559	3.5	1
84	A Biomimetic impedance controller for Robotic Hand Variable Stiffness Grasping 2020 ,		1
83	Design of an Underactuated Finger Based on a Novel Nine-Bar Mechanism. <i>Journal of Mechanisms and Robotics</i> , 2020 , 12,	2.2	5
82	Simultaneous estimation of 2-DOF wrist movements based on constrained non-negative matrix factorization and Hadamard product. <i>Biomedical Signal Processing and Control</i> , 2020 , 56, 101729	4.9	3
81	Design of Multi-channel Electrical Stimulator Integrated with Online Impedance Measurement. <i>Journal of Medical and Biological Engineering</i> , 2020 , 40, 943-950	2.2	1
80	Computer Vision-Based Grasp Pattern Recognition With Application to Myoelectric Control of Dexterous Hand Prosthesis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 2090-2099	4.8	11
79	An adaptive socket with auto-adjusting air bladders for interfacing transhumeral prosthesis: A pilot study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019 , 233, 812-822	1.7	2
78	Decoding Simultaneous Multi-DOF Wrist Movements From Raw EMG Signals Using a Convolutional Neural Network. <i>IEEE Transactions on Human-Machine Systems</i> , 2019 , 49, 411-420	4.1	28

77	Design of a Highly Compliant Underactuated Prosthetic Hand* 2019 ,		1
76	A Novel Grasping Control Method for Dexterous Prosthesis based on Eye-tracking* 2019 ,		3
75	2019 ,		4
74	A Compact Control System and A Myoelectric Control Method for Multi-DOFs Prosthetic Hand 2019 ,		2
73	Design and Preliminary Ground Experiment for Robotic Assembly of a Modular Space Telescope. <i>IEEE Access</i> , 2019 , 7, 160870-160878	3.5	2
72	A Hybrid Mapping Method with Position and Stiffness for Manipulator Teleoperation. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5005	2.6	1
71	EMG Pattern Recognition Using Convolutional Neural Network with Different Scale Signal/Spectra Input. <i>International Journal of Humanoid Robotics</i> , 2019 , 16, 1950013	1.2	12
70	Improving the functionality, robustness, and adaptability of myoelectric control for dexterous motion restoration. <i>Experimental Brain Research</i> , 2019 , 237, 291-311	2.3	26
69	A 3-DOF hemi-constrained wrist motion/force detection device for deploying simultaneous myoelectric control. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 1669-1681	3.1	6
68	A synthetic framework for evaluating and designing an anthropomorphic prosthetic hand. <i>Journal of Bionic Engineering</i> , 2018 , 15, 69-82	2.7	4
67	A novel hybrid closed-loop control approach for dexterous prosthetic hand based on myoelectric control and electrical stimulation. <i>Industrial Robot</i> , 2018 , 45, 526-538	1.4	4
66	Robust EMG pattern recognition in the presence of confounding factors: features, classifiers and adaptive learning. <i>Expert Systems With Applications</i> , 2018 , 96, 208-217	7.8	68
65	EMG dataset augmentation approaches for improving the multi-DOF wrist movement regression accuracy and robustness 2018 ,		6
64	Design and Functional Evaluation of a Dexterous Myoelectric Hand Prosthesis With Biomimetic Tactile Sensor. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1391-1399	4.8	26
63	Classification of Multiple Finger Motions During Dynamic Upper Limb Movements. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 134-141	7.2	41
62	Accurate EMG onset detection in pathological, weak and noisy myoelectric signals. <i>Biomedical Signal Processing and Control</i> , 2017 , 33, 306-315	4.9	25
61	Solving the Time-Jerk Optimal Trajectory Planning Problem of a Robot Using Augmented Lagrange Constrained Particle Swarm Optimization. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-10	1.1	7
60	A Novel Unsupervised Adaptive Learning Method for Long-Term Electromyography (EMG) Pattern Recognition. <i>Sensors</i> , 2017 , 17,	3.8	26

59	A novel actuation configuration of robotic hand and the mechanical implementation via postural synergies 2017 ,		2
58	Dynamic training protocol improves the robustness of PR-based myoelectric control. <i>Biomedical Signal Processing and Control</i> , 2017 , 31, 249-256	4.9	17
57	Design of a highly integrated underactuated finger towards prosthetic hand 2017 ,		4
56	sEMG-based estimation of human arm force using regression model 2017 ,		1
55	Design and control of an anthropomorphic prosthetic hand with a cosmesis 2016 ,		2
54	On the development of intrinsically-actuated, multisensory dexterous robotic hands. <i>ROBOMECH Journal</i> , 2016 , 3,	2.1	15
53	Development and experimental evaluation of multi-fingered robot hand with adaptive impedance control for unknown environment grasping. <i>Robotica</i> , 2016 , 34, 1168-1185	2.1	14
52	Biomechatronic design and control of an anthropomorphic artificial hand for prosthetic applications. <i>Robotica</i> , 2016 , 34, 2291-2308	2.1	12
51	Analysis of Hand and Wrist Postural Synergies in Tolerance Grasping of Various Objects. <i>PLoS ONE</i> , 2016 , 11, e0161772	3.7	9
50	An actuation configuration of inter-module coordination and the evaluation for the mechanical implementation to a prosthetic hand 2016 ,		2
49	A design of a miniaturized prosthetic wrist based on repetition rate of human wrist daily tasks 2016 ,		3
48	Analysis on the joint independence of hand and wrist 2016 ,		4
47	Fingertip Three-Axis Tactile Sensor for Multifingered Grasping. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1875-1885	5.5	36
46	EMG Onset Detection Based on Teager-Kaiser Energy Operator and Morphological Close Operation. <i>Lecture Notes in Computer Science</i> , 2015 , 257-268	0.9	
45	A synthetic framework for evaluating the anthropomorphic characteristics of prosthetic hands 2015 ,		3
44	VRM: A Unified Framework for Closed-Form Solutions of a Special Class of Serial Manipulators. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 38	1.4	0
43	A design approach to the configuration of a prosthetic hand. <i>Industrial Robot</i> , 2015 , 42, 359-370	1.4	4
42	Three-Dimensional Simultaneous EMG Control Based on Multi-layer Support Vector Regression with Interactive Structure. <i>Lecture Notes in Computer Science</i> , 2015 , 282-293	0.9	2

41	Inverse kinematic optimizations of 7R humanoid arms based on a joint parameterization 2014,		3
40	Optimal kinematic control of humanoid arms with offset wrist 2014,		2
39	Development of a multi-DOF prosthetic hand with intrinsic actuation, intuitive control and sensory feedback. <i>Industrial Robot</i> , 2014 , 41, 381-392	1.4	25
38	Experimental Study of an EMG-Controlled 5-DOF Anthropomorphic Prosthetic Hand for Motion Restoration. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014 , 76, 427-441	2.9	23
37	Dexterous motion recognition for myoelectric control of multifunctional transradial prostheses. <i>Advanced Robotics</i> , 2014 , 28, 1533-1543	1.7	11
36	A modular multisensory prosthetic hand 2014,		8
35	Hand motion recognition based on pressure distribution maps and LS-SVM 2014,		6
34	Analysis of the multi-finger dynamics for robot hand system based on EtherCAT 2014,		5
33	Design and control of a multisensory five-finger prosthetic hand 2014,		6
32	Multifingered robot hand dynamic grasping control based on fingertip three-axis tactile sensor feedback 2014,		6
31	Noise cancellation for electrotactile sensory feedback of myoelectric forearm prostheses 2014,		6
30	An integrated inverse kinematic approach for the 7-DOF humanoid arm with offset wrist 2013,		3
29	Development of a Flexible 3-D Tactile Sensor System for Anthropomorphic Artificial Hand. <i>IEEE Sensors Journal</i> , 2013 , 13, 510-518	4	53
28	Adaptive learning of multi-finger motion recognition based on support vector machine 2013,		1
27	An analytical inverse kinematic solution with the reverse coordinates for 6-DOF manipulators 2013,		2
26	DEVELOPMENT AND EXPERIMENT ANALYSIS OF ANTHROPOMORPHIC PROSTHETIC HAND WITH FLEXIBLE THREE-AXIS TACTILE SENSOR. <i>International Journal of Humanoid Robotics</i> , 2013 , 10, 1350028	1.2	8
25	Combined Use of FSR Sensor Array and SVM Classifier for Finger Motion Recognition Based on Pressure Distribution Map. <i>Journal of Bionic Engineering</i> , 2012 , 9, 39-47	2.7	77
24	A real-time controller development framework for high degrees of freedom systems 2012,		1

23	An anthropomorphic controlled hand prosthesis system. <i>Journal of Zhejiang University: Science C</i> , 2012 , 13, 769-780		
22	A novel grasping force control strategy for multi-fingered prosthetic hand. <i>Journal of Central South University</i> , 2012 , 19, 1537-1542	2.1	16
21	A BIO-MECHANICAL DESIGNED PROSTHETIC HAND WITH MULTI-CONTROL STRATEGIES. <i>International Journal of Humanoid Robotics</i> , 2012 , 09, 1250013	1.2	6
20	Design and development of a 7-DOF humanoid arm 2012 ,		8
19	DYNAMIC HAND MOTION RECOGNITION BASED ON TRANSIENT AND STEADY-STATE EMG SIGNALS. <i>International Journal of Humanoid Robotics</i> , 2012 , 09, 1250007	1.2	32
18	Switching-State Phase Shift Method for Three-Phase-Current Reconstruction With a Single DC-Link Current Sensor. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 5186-5194	8.9	69
17	Embedded Control System for Multi-DOF Anthropomorphic Prosthetic Hand and Its Grasping Strategy. <i>Jiqiren/Robot</i> , 2011 , 33, 22-27		2
16	Observer-Based Dynamic Control of an Underactuated Hand. <i>Advanced Robotics</i> , 2010 , 24, 123-137	1.7	5
15	Development of an Anthropomorphic Prosthetic Hand for Man-Machine Interaction. <i>Lecture Notes in Computer Science</i> , 2010 , 38-46	0.9	6
14	Design and control of a coupling mechanism-based prosthetic hand. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2010 , 15, 571-577	0.6	9
13	Estimation of hand grasp force based on forearm surface EMG 2009 ,		21
12	A novel phase current reconstruction method using a single DC-link current sensor 2009 ,		1
11	An anthropomorphic robot hand developed based on underactuated mechanism and controlled by EMG signals. <i>Journal of Bionic Engineering</i> , 2009 , 6, 255-263	2.7	97
10	EMG pattern recognition and grasping force estimation: Improvement to the myocontrol of multi-DOF prosthetic hands 2009 ,		24
9	An Inverse-Kinematics Table-Based Solution of a Humanoid Robot Finger With Nonlinearly Coupled Joints. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009 , 14, 273-281	5.5	16
8	EMG Control for a Five-fingered Prosthetic Hand Based on Wavelet Transform and Autoregressive Model 2006 ,		15
7	The Mechanical Design and Experiments of HIT/DLR Prosthetic Hand 2006 ,		34
6	EMG Control for a Five-fingered Underactuated Prosthetic Hand Based on Wavelet Transform and Sample Entropy 2006 ,		28

5	A Novel EMG Motion Pattern Classifier Based on Wavelet Transform and Nonlinearity Analysis Method 2006 ,	7
4	A Five-fingered Underactuated Prosthetic Hand System 2006 ,	20
3	A Five-fingered Underactuated Prosthetic Hand Control Scheme	21
2	Levenberg-Marquardt Based Neural Network Control for a Five-fingered Prosthetic Hand	24
1	Capacitive Sensor Combining Proximity and Pressure Sensing for Accurate Grasping of a Prosthetic Hand. <i>ACS Applied Electronic Materials</i> ,	4 4