Yibin Li

List of Publications by Year in Descending Order

161 papers	1,274 citations	15 h-index	29 g-index
261 ext. papers	1,892 ext. citations	3.4 avg, IF	5.25 L-index

#	Paper	IF	Citations
161	H2GNN: Hierarchical-Hops Graph Neural Networks for Multi-Robot Exploration in Unknown Environments. *IEEE Robotics and Automation Letters*, **2022**, 7, 3435-3442	4.2	2
160	Design and Control of a Novel Leg-Arm Multiplexing Mobile Operational Hexapod Robot. *IEEE Robotics and Automation Letters*, **2022**, 7, 382-389	4.2	2
159	A survey of the development of quadruped robots: Joint configuration, dynamic locomotion control method and mobile manipulation approach. *Biomimetic Intelligence and Robotics*, **2022**, 2, 100029		3
158	Design and Experimental Validation of a Master Manipulator with Position and Posture Decoupling for Laparoscopic Surgical Robot.. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2022**, e2398	2.9	1
157	Tetracyanobutadienyl-based Nonlinear Optical Dendronized Hyperbranched Polymer Synthesized via Facile [2+2]Cycloaddition Polymer Postfunctionalization.. *Macromolecular Rapid Communications*, **2022**, e2200179	4.8	0
156	Explicit-to-Implicit Robot Imitation Learning by Exploring Visual Content Change. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-12	5.5	
155	Modeling and Control of a Wheeled Biped Robot. *Micromachines*, **2022**, 13, 747	3.3	
154	Bio-Inspired Rhythmic Locomotion for Quadruped Robots. *IEEE Robotics and Automation Letters*, **2022**, 1-1	4.2	1
153	A Novel Orientation Determination Approach of Mobile Robot Using Inertial and Magnetic Sensors. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	
152	A Hierarchical Framework for Quadruped Locomotion Based on Reinforcement Learning **2021**,		2
151	Modeling and analysis on low energy consumption foot trajectory for hydraulic actuated quadruped robot. *International Journal of Advanced Robotic Systems*, **2021**, 18, 172988142110620	1.4	0
150	Unfused Nonfullerene Acceptors Based on Simple Dipolar Merocyanines. *Chemistry - A European Journal*, **2021**, 27, 18103	4.8	0
149	A Decoupled Orientation Estimation Approach for Robust Roll and Pitch Measurements in Magnetically Disturbed Environment. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1	5.2	3
148	Non-metal Piezoelectric Motor Utilizing Langevin-Type Alumina/PZT Transducer Working in Orthogonal Bending Modes. *Lecture Notes in Computer Science*, **2021**, 342-352	0.9	
147	Development of a novel deployable arm for natural orifice transluminal endoscopic surgery. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2021**, 17, e2232	2.9	3
146	Design and motion planning of hydraulically driven leg for maximum height jumping. *Mechatronics*, **2021**, 74, 102499	3	1
145	Learning Multi-Object Dense Descriptor for Autonomous Goal-Conditioned Grasping. *IEEE Robotics and Automation Letters*, **2021**, 6, 4109-4116	4.2	2

144	Towards Multi-Modal Perception-Based Navigation: A Deep Reinforcement Learning Method. *IEEE Robotics and Automation Letters*, **2021**, 6, 4986-4993	4.2	2
143	Fault estimation for discrete time-variant systems subject to actuator and sensor saturations. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 988-1004	3.6	2
142	. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1
141	An Adaptive Zero-Velocity Interval Detector Using Instep-Mounted Inertial Measurement Unit. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-13	5.2	8
140	Merocyanine with Hole-Transporting Ability and Efficient Defect Passivation Effect for Perovskite Solar Cells. *ACS Energy Letters*, **2021**, 6, 869-876	20.1	28
139	Spatiotemporal Multimodal Learning with 3D CNNs for Video Action Recognition. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	9
138	A Double-EKF Orientation Estimator Decoupling Magnetometer Effects on Pitch and Roll Angles. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	5
137	Aerodynamic Analysis of a Flapping Wing Aircraft for Short Landing. *Applied Sciences (Switzerland)*, **2020**, 10, 3404	2.6	
136	Design and experiment of a bionic flapping wing mechanism with flapping–twist–swing motion based on a single rotation. *AIP Advances*, **2020**, 10, 065018	1.5	5
135	A Motion Planning Approach for Nonprehensile Manipulation and Locomotion Tasks of a Legged Robot. *IEEE Transactions on Robotics*, **2020**, 36, 855-874	6.5	6
134	Numerical Simulation of Wave Interaction with Payloads of Different Postures Using OpenFOAM. *Journal of Marine Science and Engineering*, **2020**, 8, 433	2.4	2
133	Fault Estimation for Discrete-Time Systems With Lipschitz Perturbation and Time-Variant Coefficients. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 3137-3141	3.5	5
132	Fault estimation for a class of nonlinear time-variant systems through a Krein space–based approach. *Measurement and Control*, **2020**, 53, 541-550	1.5	1
131	Semi-Active Suspension Control Based on Deep Reinforcement Learning. *IEEE Access*, **2020**, 8, 9978-9986	3.5	16
130	An Energy Efficient Motion Controller Based on SLCP for the Electrically Actuated Quadruped Robot. *Journal of Bionic Engineering*, **2020**, 17, 290-302	2.7	6
129	Robust trajectory tracking control for a quadrotor subject to disturbances and model uncertainties. *International Journal of Systems Science*, **2020**, 51, 839-851	2.3	11
128	Grid Map Construction and Terrain Prediction for Quadruped Robot Based on C-Terrain Path. *IEEE Access*, **2020**, 8, 56572-56580	3.5	2
127	An End to End Framework With Adaptive Spatio-Temporal Attention Module for Human Action Recognition. *IEEE Access*, **2020**, 8, 47220-47231	3.5	6

126	The Influence of the Activation Function in a Convolution Neural Network Model of Facial Expression Recognition. *Applied Sciences (Switzerland)*, **2020**, 10, 1897	2.6	71
125	Contact Force Estimation and Regulation of a Position-controlled Floating Base System without Joint Torque Information **2020**,		1
124	Locomotion Control of Quadruped Robots With Online Center of Mass Adaptation and Payload Identification. *IEEE Access*, **2020**, 8, 224578-224587	3.5	1
123	Analysis and Verification on Energy Consumption of the Quadruped Robot with Passive Compliant Hydraulic Servo Actuator. *Applied Sciences (Switzerland)*, **2020**, 10, 340	2.6	4
122	ADRC-ESMPC active heave compensation control strategy for offshore cranes. *Ships and Offshore Structures*, **2020**, 15, 1098-1106	1.4	8
121	. *IEEE Transactions on Multimedia*, **2020**, 22, 2293-2306	6.6	9
120	Human-like Walking of a Biped Robot Actuated by Pneumatic Artificial Muscles and Springs **2020**,		1
119	Grasp for Stacking via Deep Reinforcement Learning **2020**,		3
118	A Novel Dynamic Locomotion Control Method for Quadruped Robots Running on Rough Terrains. *IEEE Access*, **2020**, 8, 150435-150446	3.5	2
117	A Dynamic Path Planning Method for Social Robots in the Home Environment. *Electronics (Switzerland)*, **2020**, 9, 1173	2.6	7
116	A novel recommendation system via L0-regularized convex optimization. *Neural Computing and Applications*, **2020**, 32, 1649-1663	4.8	7
115	Visual Object Tracking via Guessing and Matching. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 4182-4191	6.4	7
114	Manipulation Skill Acquisition for Robotic Assembly Based on Multi-Modal Information Description. *IEEE Access*, **2020**, 8, 6282-6294	3.5	12
113	Path Planning Based on ADFA* Algorithm for Quadruped Robot. *IEEE Access*, **2019**, 7, 111095-111101	3.5	3
112	Deep Residual Texture Network for Terrain Recognition. *IEEE Access*, **2019**, 7, 90152-90161	3.5	1
111	Fall Detection in Videos With Trajectory-Weighted Deep-Convolutional Rank-Pooling Descriptor. *IEEE Access*, **2019**, 7, 4135-4144	3.5	10
110	Generation of a continuous free gait for quadruped robot over rough terrains. *Advanced Robotics*, **2019**, 33, 74-89	1.7	4
109	Hierarchical dynamic depth projected difference images-based action recognition in videos with convolutional neural networks. *International Journal of Advanced Robotic Systems*, **2019**, 16, 1729881418825093	1.4	7

108	Modeling and Analysis on Energy Consumption of Hydraulic Quadruped Robot for Optimal Trot Motion Control. *Applied Sciences (Switzerland)*, **2019**, 9, 1771	2.6	11
107	An Autonomous Developmental Cognitive Architecture Based on Incremental Associative Neural Network With Dynamic Audiovisual Fusion. *IEEE Access*, **2019**, 7, 8789-8807	3.5	3
106	Automatic Knowledge Discovery in Lecturing Videos via Deep Representation. *IEEE Access*, **2019**, 7, 33957-33963	3.5	6
105	A Trot and Flying Trot Control Method for Quadruped Robot Based on Optimal Foot Force Distribution. *Journal of Bionic Engineering*, **2019**, 16, 621-632	2.7	12
104	Energy Efficient Foot Trajectory of Trot Motion for Hydraulic Quadruped Robot. *Energies*, **2019**, 12, 2514	3.1	13
103	Manipulation Skill Acquisition for Robotic Assembly using Deep Reinforcement Learning **2019**,		5
102	Coordinated Control of Multiple Euler–Lagrange Systems for Escorting Missions with Obstacle Avoidance. *Applied Sciences (Switzerland)*, **2019**, 9, 4144	2.6	1
101	Movements and Balance Control of a Wheel-Leg Robot Based on Uncertainty and Disturbance Estimation Method. *IEEE Access*, **2019**, 7, 133265-133273	3.5	7
100	Dynamically Grasping with Incomplete Information Workpiece Based on Machine Vision **2019**,		3
99	Learning Actions from Human Demonstration Video for Robotic Manipulation **2019**,		4
98	Finite-time Attitude Stabilization Control of a Quadrotor with Parametric Uncertainties and Disturbances* **2019**,		1
97	The Application of a Hybrid Transfer Algorithm Based on a Convolutional Neural Network Model and an Improved Convolution Restricted Boltzmann Machine Model in Facial Expression Recognition. *IEEE Access*, **2019**, 7, 184599-184610	3.5	6
96	Realization of Complex Terrain and Disturbance Adaptation for Hydraulic Quadruped Robot under Flying trot Gait **2019**,		1
95	Online Center of Mass Detection for Quadruped Robots in Trot Gait Motion* **2019**,		2
94	Active Compliance Control on the Hydraulic Quadruped Robot With Passive Compliant Servo Actuator. *IEEE Access*, **2019**, 7, 163449-163460	3.5	3
93	Facial Expression Recognition Based on Auxiliary Models. *Algorithms*, **2019**, 12, 227	1.8	4
92	Salient object detection with adversarial training. *IET Image Processing*, **2019**, 13, 2859-2865	1.7	1
91	Static Gait Planning Method for Quadruped Robot Walking on Unknown Rough Terrain. *IEEE Access*, **2019**, 7, 177651-177660	3.5	6

90	Facial Expression Recognition Based on Random Forest and Convolutional Neural Network. *Information (Switzerland)*, **2019**, 10, 375	2.6	9
89	Speed and Acceleration Control for a Two Wheel-Leg Robot Based on Distributed Dynamic Model and Whole-Body Control. *IEEE Access*, **2019**, 7, 180630-180639	3.5	4
88	Reversible data hiding for high dynamic range images using edge information. *Multimedia Tools and Applications*, **2019**, 78, 29137-29160	2.5	8
87	Coarse-to-Fine UAV Target Tracking With Deep Reinforcement Learning. *IEEE Transactions on Automation Science and Engineering*, **2019**, 16, 1522-1530	4.9	49
86	Wearable biofuel cells based on the classification of enzyme for high power outputs and lifetimes. *Biosensors and Bioelectronics*, **2019**, 124-125, 40-52	11.8	70
85	Fault Detection for Linear Discrete Time-Varying Systems Subject to Random Sensor Delay: A Riccati Equation Approach. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2018**, 65, 1707-1716	3.9	75
84	A novel energy-coupling-based control method for double-pendulum overhead cranes with initial control force constraint. *Advances in Mechanical Engineering*, **2018**, 10, 168781401775221	1.2	9
83	An Enhanced Coupling Nonlinear Tracking Controller for Underactuated 3D Overhead Crane Systems. *Asian Journal of Control*, **2018**, 20, 1839-1854	1.7	8
82	A Hybrid 3D Descriptor With Global Structural Frames and Local Signatures of Histograms. *IEEE Access*, **2018**, 6, 39261-39272	3.5	5
81	Region-sequence based six-stream CNN features for general and fine-grained human action recognition in videos. *Pattern Recognition*, **2018**, 76, 506-521	7.7	48
80	Modeling Contact State of Industrial Robotic Assembly Using Support Vector Regression **2018**,		3
79	Local Coupled Extreme Learning Machine Based on Particle Swarm Optimization. *Algorithms*, **2018**, 11, 174	1.8	4
78	Active 6-D position-pose estimation of a spatial circle using monocular eye-in-hand system. *International Journal of Advanced Robotic Systems*, **2018**, 15, 172988141775369	1.4	1
77	An Energy Optimal Foot Trajectory for the Hydraulic Actuated Quadruped Robot **2018**,		2
76	Contact State Classification in Industrial Robotic Assembly Tasks Based on Extreme Learning Machine **2018**,		3
75	Theoretical Study on the Catalytic Oxidation of p-Iodophenol by Horseradish Peroxidase in a Chemiluminescent System. *ChemistrySelect*, **2018**, 3, 11749-11757	1.8	
74	Active Impedance Control of Bioinspired Motion Robotic Manipulators: An Overview. *Applied Bionics and Biomechanics*, **2018**, 2018, 8203054	1.6	16
73	Quadruped Locomotion Control Based on Two Bipeds Jointly Carrying Model **2018**,		2

72	Model-free control of a quadrotor using adaptive proportional derivative-sliding mode control and robust integral of the signum of the error. *International Journal of Advanced Robotic Systems*, **2018**, 15, 172988141880088	1.4	10
71	Design, Modelling and Validation of Hydraulic Servo Actuator With Passive Compliance for Legged Robots. *IEEE Access*, **2018**, 6, 59486-59495	3.5	5
70	Butterfly-shaped asymmetric squaraine dimers for organic photovoltaics. *Journal of Materials Chemistry C*, **2018**, 6, 10547-10556	7.1	8
69	Cooperative Control of Multiple Nonholonomic Robots for Escorting and Patrolling Mission Based on Vector Field. *IEEE Access*, **2018**, 6, 41883-41891	3.5	12
68	A partially saturated adaptive learning controller for overhead cranes with payload hoisting/lowering and unknown parameters. *Nonlinear Dynamics*, **2017**, 89, 1779-1791	5	23
67	Self-paced model learning for robust visual tracking. *Journal of Electronic Imaging*, **2017**, 26, 013016	0.7	5
66	Collecting public RGB-D datasets for human daily activity recognition. *International Journal of Advanced Robotic Systems*, **2017**, 14, 172988141770907	1.4	3
65	Dynamic k-coverage planning for multiple events with mobile robots. *International Journal of Advanced Robotic Systems*, **2017**, 14, 172988141771079	1.4	
64	Correlation filter-based self-paced object tracking **2017**,		4
63	Modeling and energy-based fuzzy controlling for underactuated overhead cranes with load transferring, lowering, and persistent external disturbances. *Advances in Mechanical Engineering*, **2017**, 9, 168781401772008	1.2	0
62	Active compliance control of the hydraulic actuated leg prototype. *Assembly Automation*, **2017**, 37, 356-368	1.3	5
61	Deep learning based human action recognition: A survey **2017**,		7
60	Controller design and experimental validation of a robot joint with active compliance **2017**,		1
59	Cooperative multiple nonholonomic robots control for moving-target circular formation using backstepping design and tracking differentiator **2017**,		2
58	A* algorithm of global path planning based on the grid map and V-graph environmental model for the mobile robot **2017**,		3
57	Facial Expression Recognition with Fusion Features Extracted from Salient Facial Areas. *Sensors*, **2017**, 17,	3.8	49
56	Improvement of ID3 Algorithm Based on Simplified Information Entropy and Coordination Degree. *Algorithms*, **2017**, 10, 124	1.8	9
55	A turning gait generation approach for quadruped robot based on trotting gait **2016**,		2

54	Gait-Based Quadruped Robot Planar Hopping Control with Energy Planning. *International Journal of Advanced Robotic Systems*, **2016**, 13, 20	1.4	3
53	Information fusion control with time delay for smooth pursuit eye movement. *Physiological Reports*, **2016**, 4, e12775	2.6	2
52	Torso motion control and toe trajectory generation of a trotting quadruped robot based on virtual model control. *Advanced Robotics*, **2016**, 30, 284-297	1.7	21
51	Design optimization on passive exoskeletons through musculoskeletal model simulation **2016**,		1
50	Research and design of intelligent control and precision sowing simulation system for wheat. *Journal of Intelligent and Fuzzy Systems*, **2016**, 31, 2313-2320	1.6	1
49	Chattering free sliding adaptive attitude control for quadrotor **2016**,		1
48	Facial expression recognition with PCA and LBP features extracting from active facial patches **2016**,		15
47	A novel online motion planning method for double-pendulum overhead cranes. *Nonlinear Dynamics*, **2016**, 85, 1079-1090	5	61
46	A Bounded Strategy of the Mobile Robot Coverage Path Planning Based on Lorenz Chaotic System. *International Journal of Advanced Robotic Systems*, **2016**, 13, 107	1.4	14
45	A free gait generation method for quadruped robots over rough terrains containing forbidden areas. *Journal of Mechanical Science and Technology*, **2015**, 29, 3983-3993	1.6	10
44	Research on pressure tactile sensing technology based on fiber Bragg grating array. *Photonic Sensors*, **2015**, 5, 263-272	2.3	15
43	Mathematical Modeling and Analysis of Multirobot Cooperative Hunting Behaviors. *Journal of Robotics*, **2015**, 2015, 1-8	1.5	3
42	Combining features for Chinese sign language recognition with Kinect **2014**,		10
41	Realization of a hydraulic actuated biped robot walking without double support phase. *International Journal of Control, Automation and Systems*, **2014**, 12, 843-851	2.9	2
40	Training Revising Based Traversability Analysis of Complex Terrains for Mobile Robot. *Advances in Mechanical Engineering*, **2014**, 6, 572917	1.2	0
39	An improved kernel based extreme learning machine for robot execution failures. *Scientific World Journal, The*, **2014**, 2014, 906546	2.2	8
38	An active target localization with monocular vision **2014**,		1
37	An impact recovery approach for quadruped robot with trotting gait **2014**,		1

36	Chinese sign language recognition with 3D hand motion trajectories and depth images **2014**,		3
35	An Improved Reinforcement Learning Algorithm for Cooperative Behaviors of Mobile Robots. *Journal of Control Science and Engineering*, **2014**, 2014, 1-8	1.2	3
34	The extreme learning machine learning algorithm with tunable activation function. *Neural Computing and Applications*, **2013**, 22, 531-539	4.8	33
33	The application of image based visual servo control system for smart guard **2013**,		2
32	An improved extreme learning machine based on Variable-length Particle Swarm Optimization **2013**,		7
31	Target recognition in different color spaces **2013**,		1
30	Mobile Robot Path Planning Using Polyclonal-Based Artificial Immune Network. *Journal of Control Science and Engineering*, **2013**, 2013, 1-13	1.2	2
29	An Improved Chaotic Motion Path Planner for Autonomous Mobile Robots Based on a Logistic Map. *International Journal of Advanced Robotic Systems*, **2013**, 10, 273	1.4	13
28	Design and simulation for a hydraulic actuated quadruped robot. *Journal of Mechanical Science and Technology*, **2012**, 26, 1171-1177	1.6	79
27	An anchor-free localization algorithm for shopping carts on supermarket Internet of Things **2012**,		1
26	Research of mammal bionic quadruped robots: A review **2011**,		32
25	Gait generation and transitions of quadruped robot based on Wilson-Cowan weakly neural networks **2010**,		9
24	Multi-steps prediction of chaotic time series based on echo state network **2010**,		4
23	The OpenGL and Ginac based approach to quadruped robot gait simulation system **2010**,		1
22	Research and design of control system for a tracked SAR robot under coal mine **2009**,		1
21	Face detection and recognition with SURF for human-robot interaction **2009**,		7
20	Research on autonomous negotiation action planning for 110kV power transmission line inspection robot **2008**,		2
19	ADRC based ship tracking controller design and simulations **2008**,		3

18	Adaptive genetic algorithm for occupancy grid maps merging **2008**,		1
17	Multi-objective Path Planning for the Mobile Robot **2007**,		3
16	The Research and Application of Real Time CORBA in Software Framework for Industrial Robot **2007**,		2
15	Genetic Algorithm-based Multi-robot Cooperative Exploration **2007**,		1
14	Study on ADRC-based mobile robot lateral control **2007**,		3
13	Multi-agent-based Auctions for Multi-robot Exploration **2006**,		1
12	Parallel Learning Evolutionary Algorithm Based on Neural Network Ensemble **2006**,		1
11	The Design and Implementation of OpenGL-based Comprehensive Educational Robot System **2006**,		5
10	Design of Wireless Sensor Network Node CC2510 Based and Study on Communication Protocol **2006**,		1
9	The Design and Implementation of Middleware-based and VR-based Software Framework for Distributed Industrial Robot Application in Train Maintenance **2006**,		1
8	Study on throttle control of intelligent vehicle longitudinal motion		1
7	Search strategy of path for mobile robot		1
6	Autonomous Robot Navigation Based on Multi-Camera Perception		3
5	An Efficient Gait-generating Method for Electrical Quadruped Robot Based on Humanoid Power Planning Approach. *Journal of Bionic Engineering*,1	2.7	1
4	Emerging Chemistry in Enhancing the Chemical and Photochemical Stabilities of Fused-Ring Electron Acceptors in Organic Solar Cells. *Advanced Functional Materials*,2106735	15.6	9
3	CFD modeling of the turbulent dispersion of liquid droplets in a vessel using a correlation based on local droplet size distribution. *Chemical Engineering Communications*,1-16	2.2	
2	Design and control method of a hydraulic power unit for a wheel-legged robot. *Journal of Mechanical Science and Technology*,1	1.6	0
1	Optimal trajectory planning strategy for underactuated overhead crane with pendulum-sloshing dynamics and full-state constraints. *Nonlinear Dynamics*,1	5	1