Yisheng Guan

List of Publications by Year in Descending Order

72 papers	424 citations	9 h-index	17 g-index
119 ext. papers	645 ext. citations	3.6 avg, IF	3.98 L-index

#	Paper	IF	Citations
72	A Normal Tracking Method for Workpieces with Free-Form Surface in Robotic Polishing. *Mechanisms and Machine Science*, **2022**, 1753-1765	0.3	1
71	Review on Bioinspired Planetary Regolith-Burrowing Robots. *Space Science Reviews*, **2021**, 217, 1	7.5	1
70	A Graph Attention Spatio-temporal Convolutional Network for 3D Human Pose Estimation in Video **2021**,		9
69	Planning Three-Dimensional Collision-Free Optimized Climbing Path for Biped Wall-Climbing Robots. *IEEE/ASME Transactions on Mechatronics*, **2021**, 26, 2712-2723	5.5	4
68	Corrections to Geometry of Adjoint-Invariant Submanifolds of SE(3)[Apr 21 699-705]. *IEEE Transactions on Robotics*, **2021**, 37, 706-706	6.5	
67	Hyperparameter Auto-Tuning in Self-Supervised Robotic Learning. *IEEE Robotics and Automation Letters*, **2021**, 6, 3537-3544	4.2	0
66	Dynamic Neural Networks for Motion-Force Control of Redundant Manipulators: An Optimization Perspective. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 1525-1536	8.9	36
65	Geometry of Adjoint-Invariant Submanifolds of SE(3). *IEEE Transactions on Robotics*, **2021**, 37, 699-705	6.5	2
64	Design of a Novel Cable-Driven 3-DOF Series-Parallel Wrist Module for Humanoid Arms **2021**,		1
63	Automatic generation of auxiliary cutting paths based on sheet material semantic information. *International Journal of Advanced Manufacturing Technology*, **2020**, 106, 3787-3797	3.2	1
62	Invariant Transform Experience Replay: Data Augmentation for Deep Reinforcement Learning. *IEEE Robotics and Automation Letters*, **2020**, 5, 6615-6622	4.2	2
61	A High-Bandwidth End-Effector With Active Force Control for Robotic Polishing. *IEEE Access*, **2020**, 8, 169122-169135	3.5	9
60	SCARA Robots Developed with Modular Method **2020**,		2
59	Reliable Visual Exploration System with Fault Tolerance Structure. *Applied Sciences (Switzerland)*, **2019**, 9, 662	2.6	1
58	A Latent State-Based Multimodal Execution Monitor with Anomaly Detection and Classification for Robot Introspection. *Applied Sciences (Switzerland)*, **2019**, 9, 1072	2.6	13
57	A Study of Sensor-Fusion Mechanism for Mobile Robot Global Localization. *Robotica*, **2019**, 37, 1835-1849	2.1	9
56	Development of A Robot System Performing Maintenance Tasks on High-Voltage Power Transmission Lines **2019**,		1

55	Eye Contact Detection via CNN-based Gaze Direction Regression **2019**,		1
54	Large-scale Multi-modal Person Identification in Real Unconstrained Environments **2019**,		1
53	Random Walk Network for 3D Point Cloud Classification and Segmentation **2019**,		1
52	Multi-Sensor Fusion Localization of Indoor Mobile Robot **2019**,		3
51	Object Detection Using Deep Learning: Single Shot Detector with a Refined Feature-fusion Structure **2019**,		4
50	Prediction of TBM Tunneling Parameters through an LSTM Neural Network **2019**,		3
49	Design and Modeling of a 2-DOF Cable-Driven Parallel Wrist Mechanism **2019**,		2
48	Transition Analysis and Its Application to Global Path Determination for a Biped Climbing Robot. *Applied Sciences (Switzerland)*, **2018**, 8, 122	2.6	7
47	Optimal Collision-Free Grip Planning for Biped Climbing Robots in Complex Truss Environment. *Applied Sciences (Switzerland)*, **2018**, 8, 2533	2.6	2
46	Development of A Novel Vacuum-Suction Gripper Capable of Changing Gripping Position **2018**,		1
45	Projected Affinity Values for Nystrm Spectral Clustering. *Entropy*, **2018**, 20,	2.8	1
44	CNN Descriptor Improvement Based on L2-Normalization and Feature Pooling for Patch Classification **2018**,		2
43	A Survey of Robotic Polishing **2018**,		8
42	Kinematic Modelling and Analysis of an Ess-board-like Robot **2018**,		2
41	Design and Modeling of a Module with Locally Linear Variable Stiffness **2018**,		1
40	Integration of Visual Information and Robot Offline Programming System for Improving Automatic Deburring Process **2018**,		3
39	A Novel End-effector for Robotic Compliant Polishing **2018**,		3
38	An Odd-Form Electronic Component Insertion System Based on Dual SCARA **2018**,		2

37	Local Deformable Template Matching in Robotic Deburring **2018**,		1
36	3D-PSA: A 3D Pneumatic Soft Actuator with Extending and Omnidirectional Bending Motion **2018**,		4
35	PISRob: A Pneumatic Soft Robot for Locomoting Like an Inchworm **2018**,		14
34	Motion tracking of both hands with occasional mutual occlusion using RGB-D camera and IMU **2017**,		2
33	A 3D object detection and pose estimation pipeline using RGB-D images **2017**,		7
32	A vision-based scheme for kinematic model construction of re-configurable modular robots **2017**,		2
31	A spatial soft module actuated by SMA coil **2017**,		2
30	Single-step collision-free trajectory planning of biped climbing robots in spatial trusses. *Robotics and Biomimetics*, **2016**, 3, 1		13
29	Climbot: A Bio-Inspired Modular Biped Climbing Robot-System Development, Climbing Gaits, and Experiments. *Journal of Mechanisms and Robotics*, **2016**, 8,	2.2	26
28	A multi-layered path planning algorithm for truss climbing with a biped robot **2016**,		3
27	Design and control of a miniature rolling robot for entertainment **2016**,		1
26	Multi-objective configuration optimization of assembly-level reconfigurable modular robots **2016**,		3
25	Autonomous Pose Detection and Alignment of Suction Modules of a Biped Wall-Climbing Robot. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 653-662	5.5	32
24	Kinect-based robotic manipulation: From human hand to end-effector **2015**,		2
23	Base frame calibration for multi-robot coordinated systems **2015**,		6
22	Projection algorithm for 3D laser marking **2015**,		2
21	A robotic off-line programming system based on SolidWorks **2015**,		4
20	An efficient visual loop closure detection method in a map of 20 million key locations **2014**,		7

19	A binary approximating method for graspable region determination of biped climbing robots. *Advanced Robotics*, **2014**, 28, 1405-1418	1.7	7
18	Coordinated motion planning with calibration and offline programming for a manipulator-positioner system **2014**,		2
17	A Modular Biped Wall-Climbing Robot With High Mobility and Manipulating Function. *IEEE/ASME Transactions on Mechatronics*, **2013**, 18, 1787-1798	5.5	75
16	Development of isomorphic master-slave robots with modular method **2013**,		3
15	Development and analysis of a bilateral control system for modular master-slave robots with P-P tracking capability **2013**,		2
14	Stability of biped robotic walking with frictional constraints. *Robotica*, **2013**, 31, 573-588	2.1	5
13	Task-oriented inverse kinematics of modular reconfigurable robots **2013**,		2
12	Off-line programming of robotic system based on DXF files of 3D models **2013**,		5
11	A novel miniature modular wire inspection robot with multiple locomotion modes **2013**,		1
10	Wawa: A tumbler-like household robot **2012**,		1
9	A miniature biped wall-climbing robot for inspection of magnetic metal surfaces **2012**,		12
8	An intelligent environmental monitoring system based on autonomous mobile robot **2011**,		6
7	The superior mobility and function of W-Climbot □A bio-inspired modular biped wall-climbing robot **2011**,		3
6	A novel 6-DoF biped active walking robot □Walking gaits, patterns and experiments **2011**,		2
5	Modeling and planning for stable walking of a novel 6-DOF biped robot **2010**,		1
4	1-DoF robotic joint modules and their applications in new robotic systems **2009**,		3
3	Climbing gaits of a modular biped climbing robot **2009**,		11
2	Climbot-□A Soft Robot with Novel Grippers and Rigid-compliantly Constrained Body for Climbing on Various Poles		0

1 Real-time normal contact force control for robotic surface processing of workpieces without a priori geometric model. *International Journal of Advanced Manufacturing Technology*,1 3.2 2