Jing Xu

List of Publications by Year
in descending order

72	1,557	361413	361022
papers	citations	20	35
		h-index	g-index

73	73	73	1140
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Point-Based Multi-View Stereo Network. , 2019, , .		190
2	Status, challenges, and future perspectives of fringe projection profilometry. Optics and Lasers in Engineering, 2020, 135, 106193.	3.8	178
3	Feedback Deep Deterministic Policy Gradient With Fuzzy Reward for Robotic Multiple Peg-in-Hole Assembly Tasks. IEEE Transactions on Industrial Informatics, 2019, 15, 1658-1667.	11.3	97
4	Real-time 3D shape inspection system of automotive parts based on structured light pattern. Optics and Laser Technology, 2011, 43, 1-8.	4.6	87
5	High-accuracy, high-speed 3D structured light imaging techniques and potential applications to intelligent robotics. International Journal of Intelligent Robotics and Applications, 2017, 1, 86-103.	2.8	66
6	Accurate calibration method for camera and projector in fringe patterns measurement system. Applied Optics, 2016, 55, 4293.	2.1	56
7	Rapid 3D surface profile measurement of industrial parts using two-level structured light patterns. Optics and Lasers in Engineering, 2011, 49, 907-914.	3.8	52
8	Modeling of Soft Robots Actuated by Twisted-and-Coiled Actuators. IEEE/ASME Transactions on Mechatronics, 2019, 24, 5-15.	5.8	49
9	Jamming Analysis and Force Control for Flexible Dual Peg-in-Hole Assembly. IEEE Transactions on Industrial Electronics, 2019, 66, 1930-1939.	7.9	47
10	Force control for a rigid dual peg-in-hole assembly. Assembly Automation, 2017, 37, 200-207.	1.7	45
11	Threeâ€dimensional ultrasound imageâ€guided robotic system for accurate microwave coagulation of malignant liver tumours. International Journal of Medical Robotics and Computer Assisted Surgery, 2010, 6, 256-268.	2.3	44
12	A Robust Surface Coding Method for Optically Challenging Objects Using Structured Light. IEEE Transactions on Automation Science and Engineering, 2014, 11, 775-788.	5.2	43
13	A simple calibration method for structured light-based 3D profile measurement. Optics and Laser Technology, 2013, 48, 187-193.	4.6	41
14	Optimal Path Planning and Control of Assembly Robots for Hard-Measuring Easy-Deformation Assemblies. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1600-1609.	5.8	41
15	A Method for Optimizing the Base Position of Mobile Painting Manipulators. IEEE Transactions on Automation Science and Engineering, 2017, 14, 370-375.	5.2	36
16	Visibility-Aware Point-Based Multi-View Stereo Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3695-3708.	13.9	32
17	Data-Efficient Hierarchical Reinforcement Learning for Robotic Assembly Control Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 11565-11575.	7.9	30
18	Calibration method for a large-scale structured light measurement system. Applied Optics, 2017, 56, 3995.	2.1	28

#	Article	IF	Citations
19	Depth-driven variable-frequency sinusoidal fringe pattern for accuracy improvement in fringe projection profilometry. Optics Express, 2018, 26, 19986.	3.4	25
20	Fuzzy Logic-Driven Variable Time-Scale Prediction-Based Reinforcement Learning for Robotic Multiple Peg-in-Hole Assembly. IEEE Transactions on Automation Science and Engineering, 2022, 19, 218-229.	5.2	22
21	Combined Inverse Kinematic and Static Analysis and Optimal Design of a Cable-Driven Mechanism with a Spring Spine. Advanced Robotics, 2012, 26, 923-946.	1.8	21
22	A self-recalibration method based on scale-invariant registration for structured light measurement systems. Optics and Lasers in Engineering, 2017, 88, 75-81.	3.8	21
23	Dynamic projection theory for fringe projection profilometry. Applied Optics, 2017, 56, 8452.	1.8	21
24	Fringe-Projection-Based Normal Direction Measurement and Adjustment for Robotic Drilling. IEEE Transactions on Industrial Electronics, 2020, 67, 9560-9570.	7.9	21
25	Multichannel Finger Pattern Recognition Using Single-Site Mechanomyography. IEEE Sensors Journal, 2021, 21, 8184-8193.	4.7	20
26	Normal Direction Measurement and Optimization With a Dense Three-Dimensional Point Cloud in Robotic Drilling. IEEE/ASME Transactions on Mechatronics, 2018, 23, 986-996.	5.8	19
27	An Accurate Point-Based Rigid Registration Method for Laser Tracker Relocation. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 254-262.	4.7	18
28	Screw Insertion Method in Peg-in-Hole Assembly for Axial Friction Reduction. IEEE Access, 2019, 7, 148313-148325.	4.2	15
29	Fringe Pattern Based Plane-to-Plane Visual Servoing for Robotic Spray Path Planning. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1083-1091.	5.8	14
30	Laser tracker based robotic assembly system for large scale peg-hole parts. , 2014, , .		13
31	Knowledge-Driven Deep Deterministic Policy Gradient for Robotic Multiple Peg-in-Hole Assembly Tasks. , 2018, , .		13
32	A Depth-Based Weighted Point Cloud Registration for Indoor Scene. Sensors, 2018, 18, 3608.	3.8	13
33	Bidirectional Sim-to-Real Transfer for GelSight Tactile Sensors With CycleGAN. IEEE Robotics and Automation Letters, 2022, 7, 6187-6194.	5.1	13
34	Realtime 3D profile measurement by using the composite pattern based on the binary stripe pattern. Optics and Laser Technology, 2012, 44, 587-593.	4.6	12
35	Reinforcement learning-based collision-free path planner for redundant robot in narrow duct. Journal of Intelligent Manufacturing, 2021, 32, 471-482.	7.3	12
36	Automatic Multiple-Needle Surgical Planning of Robotic-Assisted Microwave Coagulation in Large Liver Tumor Therapy. PLoS ONE, 2016, 11, e0149482.	2.5	11

#	ARTICLE	IF	CITATIONS
37	Kinematics Modeling of a Twisted and Coiled Polymer-Based Elastomer Soft Robot. IEEE Access, 2019, 7, 136792-136800.	4.2	10
38	Structured Light-Based Visual Servoing for Robotic Pipe Welding Pose Optimization. IEEE Access, 2019, 7, 138327-138340.	4.2	10
39	Laser tracker-based control for peg-in-hole assembly robot. , 2014, , .		8
40	Accurate Kinematics Calibration Method for a Large-Scale Machine Tool. IEEE Transactions on Industrial Electronics, 2021, 68, 9832-9843.	7.9	7
41	Non-vector space visual servoing for multiple pin-in-hole assembly by robot. , 2016, , .		6
42	Combined kinematic and static analysis of a cable-driven manipulator with a spring spine. , 2011, , .		5
43	Conceptual Method of Temperature Sensation in Bionic Hand by Extraordinary Perceptual Phenomenon. Journal of Bionic Engineering, 2021, 18, 1344-1357.	5.0	5
44	Ellipse detection using the edges extracted by deep learning. Machine Vision and Applications, 2022, 33, .	2.7	5
45	Exploring optimal controller parameters for complex industrial systems. , 2015, , .		4
46	Self-Supervised Learning for Specified Latent Representation. IEEE Transactions on Fuzzy Systems, 2020, 28, 47-59.	9.8	4
47	Develop feedback robot planning method for 3D surface inspection. , 2009, , .		3
48	Learning optimal measurement and control of assembly robot for large-scale heavy-weight parts. , 2015, , .		3
49	Self-recalibration of a robot-assisted structured-light-based measurement system. Applied Optics, 2017, 56, 8857.	1.8	3
50	Windshield shape inspection using structured light patterns from two diffuse planar light sources. , 2009, , .		2
51	An approach for structured light system calibration. , 2013, , .		2
52	A Novel Additive Manufacturing Method for Spiral Parts. , 2017, , .		2
53	A robotic surgery navigation system for hepatic microwave coagulation therapy. , 2009, , .		1
54	A preoperative ultrasound planning of robotic system for hepatic microwave coagulation. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
55	Real-time 3D shape measurement system based on single structure light pattern. , 2010, , .		1
56	Calibration of a structure light based windshield inspection system. , 2010, , .		1
57	A passive dance robot with active coordination capability. , 2014, , .		1
58	A new survey adjustment method for laser tracker relocation. , 2015, , .		1
59	Visual Servoing Based on Geometric Features by Surface Structured Light. , 2017, , .		1
60	Analysis, modeling and experimental validation of temperature-changing effect on mechanical properties of pneumatic artificial muscle. Advanced Robotics, 2018, 32, 984-998.	1.8	1
61	Plane Loop Closure Based Point Cloud Registration Using Structured Light Sensor. , 2019, , .		1
62	Modeling of Planar Hydraulically Amplified Self-Healing Electrostatic Actuators. IEEE Robotics and Automation Letters, 2021, 6, 7533-7540.	5.1	1
63	Fringe projection based visual servoing for cylindrical surface positioning task. , 2019, , .		1
64	Point-based registration using Extended Kalman Filter in medical robotic system. , 2009, , .		0
65	Error propagation of the robotic system for liver cancer coagulation therapy. , 2009, , .		0
66	Real-time 3D shape inspection system for manufacturing parts based on three-step stripe pattern. , 2010, , .		0
67	Fuzzy Lyapunov synthesis control design for an underactuated 2-dimensional translational oscillator with rotational actuator. , 2014, , .		0
68	A new weighting iterative solution for laser tracker registration. , 2015, , .		0
69	Efficient controller parameter tuning for a system with disturbance. , 2015, , .		0
70	Calibration method for structured light based panoramic sensor with planar mirror. , 2017, , .		0
71	Normal direction measurement based on 3D point cloud in robotic drilling. , 2017, , .		0
72	Thermal error analysis and compensation in structured light system by virtual-point-based method. , 2021, , .		0