Yun-Hui Liu

List of Publications by Year
in descending order

361 papers	5,016 citations	126858 33 h-index	175177 52 g-index
361 all docs	361 docs citations	361 times ranked	3163 citing authors

#	Article	IF	Citations
1	Uncalibrated visual servoing of robots using a depth-independent interaction matrix. , 2006, 22, 804-817.		242
2	Qualitative test and force optimization of 3-D frictional form-closure grasps using linear programming. IEEE Transactions on Automation Science and Engineering, 1999, 15, 163-173.	2.4	200
3	Enclosing a target by nonholonomic mobile robots with bearing-only measurements. Automatica, 2015, 53, 400-407.	3.0	199
4	Visual Servoing Trajectory Tracking of Nonholonomic Mobile Robots Without Direct Position Measurement. IEEE Transactions on Robotics, 2014, 30, 1026-1035.	7.3	155
5	Automatic 3-D Manipulation of Soft Objects by Robotic Arms With an Adaptive Deformation Model. IEEE Transactions on Robotics, 2016, 32, 429-441.	7.3	120
6	Iterative learning impedance control for rehabilitation robots driven by series elastic actuators. Automatica, 2018, 90, 1-7.	3.0	117
7	Model-Free Visually Servoed Deformation Control of Elastic Objects by Robot Manipulators. IEEE Transactions on Robotics, 2013, 29, 1457-1468.	7.3	90
8	Formation Control of Nonholonomic Mobile Robots Without Position and Velocity Measurements. IEEE Transactions on Robotics, 2018, 34, 434-446.	7.3	90
9	Fourier-Based Shape Servoing: A New Feedback Method to Actively Deform Soft Objects into Desired 2-D Image Contours. IEEE Transactions on Robotics, 2018, 34, 272-279.	7.3	89
10	Supermedia-enhanced internet-based telerobotics. Proceedings of the IEEE, 2003, 91, 396-421.	16.4	86
11	Leader-Following Formation Tracking Control of Mobile Robots Without Direct Position Measurements. IEEE Transactions on Automatic Control, 2016, 61, 4131-4137.	3.6	85
12	On the visual deformation servoing of compliant objects: Uncalibrated control methods and experiments. International Journal of Robotics Research, 2014, 33, 1462-1480.	5.8	80
13	A New Approach to Dynamic Eye-in-Hand Visual Tracking Using Nonlinear Observers. IEEE/ASME Transactions on Mechatronics, 2011, 16, 387-394.	3.7	60
14	A Simple and Parallel Algorithm for Real-Time Robot Localization by Fusing Monocular Vision and Odometry/AHRS Sensors. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1447-1457.	3.7	58
15	Adaptive Trajectory Tracking of Nonholonomic Mobile Robots Using Vision-Based Position and Velocity Estimation. IEEE Transactions on Cybernetics, 2018, 48, 571-582.	6.2	57
16	Adaptive Variable Stiffness Particle Phalange for Robust and Durable Robotic Grasping. Soft Robotics, 2020, 7, 743-757.	4.6	57
17	Vision-Based Calibration of Dual RCM-Based Robot Arms in Human-Robot Collaborative Minimally Invasive Surgery. IEEE Robotics and Automation Letters, 2018, 3, 672-679.	3.3	56
18	Automatic selection of fixturing surfaces and fixturing points for polyhedral workpieces. IEEE Transactions on Automation Science and Engineering, 2001, 17, 833-841.	2.4	55

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19	Soft robotic manipulator for intraoperative MRI-guided transoral laser microsurgery. Science Robotics, 2021, 6, .	9.9	54
20	Dual-Arm Robotic Needle Insertion With Active Tissue Deformation for Autonomous Suturing. IEEE Robotics and Automation Letters, 2019, 4, 2669-2676.	3.3	51
21	A unified design method for adaptive visual tracking control of robots with eye-in-hand/fixed camera configuration. Automatica, 2015, 59, 97-105.	3.0	48
22	View-Invariant Human Action Recognition Based on a 3D Bio-Constrained Skeleton Model. IEEE Transactions on Image Processing, 2019, 28, 3959-3972.	6.0	47
23	Adaptive Visual Servoing of Contour Features. IEEE/ASME Transactions on Mechatronics, 2018, 23, 811-822.	3.7	46
24	Distributively controlling two robots handling an object in the task space without any communication. IEEE Transactions on Automatic Control, 1996, 41, 1193-1198.	3.6	45
25	Modeling and Impedance Control of a Two-Manipulator System Handling a Flexible Beam. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 736-742.	0.9	45
26	Automatic identification of mycobacterium tuberculosis from ZN-stained sputum smear: Algorithm and system design. , 2010, , .		39
27	Odometry-Vision-Based Ground Vehicle Motion Estimation With SE(2)-Constrained SE(3) Poses. IEEE Transactions on Cybernetics, 2019, 49, 2652-2663.	6.2	39
28	Unsupervised 3D Human Pose Representation with Viewpoint and Pose Disentanglement. Lecture Notes in Computer Science, 2020, , 102-118.	1.0	39
29	Estimating Position of Mobile Robots From Omnidirectional Vision Using an Adaptive Algorithm. IEEE Transactions on Cybernetics, 2015, 45, 1633-1646.	6.2	37
30	Autonomous Data-Driven Manipulation of Unknown Anisotropic Deformable Tissues Using Unmodelled Continuum Manipulators. IEEE Robotics and Automation Letters, 2019, 4, 254-261.	3.3	37
31	A Robust Data-Driven Approach for Online Learning and Manipulation of Unmodeled 3-D Heterogeneous Compliant Objects. IEEE Robotics and Automation Letters, 2018, 3, 4140-4147.	3.3	36
32	A Proprioceptive Bellows (PB) Actuator With Position Feedback and Force Estimation. IEEE Robotics and Automation Letters, 2020, 5, 1867-1874.	3.3	36
33	Adaptive visual servoing using common image features with unknown geometric parameters. Automatica, 2013, 49, 2453-2460.	3.0	35
34	Robust Three-Dimensional Shape Sensing for Flexible Endoscopic Surgery Using Multi-Core FBG Sensors. IEEE Robotics and Automation Letters, 2021, 6, 4835-4842.	3.3	35
35	Image-Based Position Control of Mobile Robots With a Completely Unknown Fixed Camera. IEEE Transactions on Automatic Control, 2018, 63, 3016-3023.	3.6	34
36	Efficient Fully Convolution Neural Network for Generating Pixel Wise Robotic Grasps With High Resolution Images. , 2019, , .		34

#	Article	IF	Citations
37	SeqLPD: Sequence Matching Enhanced Loop-Closure Detection Based on Large-Scale Point Cloud Description for Self-Driving Vehicles. , 2019, , .		34
38	An Algorithm for Extrinsic Parameters Calibration of a Camera and a Laser Range Finder Using Line Features. , 2007, , .		33
39	Design of an Interactive Control System for a Multisection Continuum Robot. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2379-2389.	3.7	32
40	Nonlinear dynamic modeling and control of a small-scale helicopter. International Journal of Control, Automation and Systems, 2010, 8, 534-543.	1.6	31
41	Saturated PID Control for the Optical Manipulation of Biological Cells. IEEE Transactions on Control Systems Technology, 2018, 26, 1909-1916.	3.2	29
42	Vision-Based Robotic Manipulation of Flexible PCBs. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2739-2749.	3.7	29
43	Leveraging Structural Regularity of Atlanta World for Monocular SLAM. , 2019, , .		29
44	Leader-Following Formation Control of Nonholonomic Mobile Robots With Velocity Observers. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1747-1755.	3.7	29
45	Footâ€controlled roboticâ€enabled endoscope holder for endoscopic sinus surgery: A cadaveric feasibility study. Laryngoscope, 2016, 126, 566-569.	1.1	28
46	Foot-Controlled Robot-Enabled EnDOscope Manipulator (FREEDOM) for Sinus Surgery: Design, Control, and Evaluation. IEEE Transactions on Biomedical Engineering, 2020, 67, 1530-1541.	2.5	28
47	MIDS: micro input devices system using MEMS sensors. , 0, , .		25
48	Developing a Compact Robotic Needle Driver for MRI-Guided Breast Biopsy in Tight Environments. IEEE Robotics and Automation Letters, 2017, 2, 1648-1655.	3.3	25
49	Model-based adaptive hybrid control for manipulators under multiple geometric constraints. IEEE Transactions on Control Systems Technology, 1999, 7, 97-109.	3.2	24
50	An Efficient Face Normalization Algorithm Based on Eyes Detection. , 2006, , .		24
51	3D reconstruction based on SIFT and Harris feature points. , 2009, , .		24
52	Vision-Based Tracking Control of Underactuated Water Surface Robots Without Direct Position Measurement. IEEE Transactions on Control Systems Technology, 2015, 23, 2391-2399.	3.2	24
53	Toward Semi-autonomous Cryoablation of Kidney Tumors via Model-Independent Deformable Tissue Manipulation Technique. Annals of Biomedical Engineering, 2018, 46, 1650-1662.	1.3	24
54	Design and Validation of a Novel Leaf Spring-Based Variable Stiffness Joint With Reconfigurability. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2045-2053.	3.7	24

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55	Hand-eye servo and impedance control for manipulator arm to capture target satellite safely. Robotica, 2015, 33, 848-864.	1.3	23
56	Robust Path Following of the Tractor-Trailers System in GPS-Denied Environments. IEEE Robotics and Automation Letters, 2020, 5, 500-507.	3.3	23
57	Position and force tracking of a two-manipulator system manipulating a flexible beam. Journal of Field Robotics, 2001, 18, 197-212.	0.7	22
58	Autonomous Wi-Fi Relay Placement With Mobile Robots. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2532-2542.	3.7	22
59	SurRoL: An Open-source Reinforcement Learning Centered and dVRK Compatible Platform for Surgical Robot Learning. , 2021, , .		22
60	Modular Origami Soft Robot with the Perception of Interaction Force and Body Configuration. Advanced Intelligent Systems, 2022, 4, .	3.3	22
61	Cooperative control of a two-manipulator system handling a general flexible object. , 0, , .		21
62	Computation of fingertip positions for a form-closure grasp. , 0, , .		21
63	Development of a robotic endoscope holder for nasal surgery. , 2013, , .		21
64	Deep Learning-Based Localization and Perception Systems: Approaches for Autonomous Cargo Transportation Vehicles in Large-Scale, Semiclosed Environments. IEEE Robotics and Automation Magazine, 2020, 27, 139-150.	2.2	21
65	Augmented Reality Assisted Instrument Insertion and Tool Manipulation for the First Assistant in Robotic Surgery. , 2019, , .		20
66	Quasi-Globally Optimal and Efficient Vanishing Point Estimation in Manhattan World. , 2019, , .		20
67	A Sim-to-Real Object Recognition and Localization Framework for Industrial Robotic Bin Picking. IEEE Robotics and Automation Letters, 2022, 7, 3961-3968.	3.3	20
68	Concepts and Trends in Autonomy for Robot-Assisted Surgery. Proceedings of the IEEE, 2022, 110, 993-1011.	16.4	20
69	ISOGRID: an Efficient Algorithm for Coverage Enhancement in Mobile Sensor Networks. , 2006, , .		19
70	The Mechanism of Yaw Torque Compensation in the Human and Motion Design for Humanoid Robots. International Journal of Advanced Robotic Systems, 2013, 10, 57.	1.3	19
71	Tele-Operated Oropharyngeal Swab (TOOS) Robot Enabled by TSS Soft Hand for Safe and Effective Sampling. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 1040-1053.	2.1	18
72	Improving efficiency of Internet based teleoperation using network QoS. , 0, , .		17

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73	Design of a Novel Compliant Safe Robot Joint With Multiple Working States. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1193-1198.	3.7	17
74	A Fully Automatic Calibration Algorithm for a Camera Odometry System. IEEE Sensors Journal, 2017, 17, 4208-4216.	2.4	17
75	Appearance-Based Gaze Estimator for Natural Interaction Control of Surgical Robots. IEEE Access, 2019, 7, 25095-25110.	2.6	17
76	Needle Tip Tracking in 2D Ultrasound Based on Improved Compressive Tracking and Adaptive Kalman Filter. IEEE Robotics and Automation Letters, 2021, 6, 3224-3231.	3.3	17
77	3D Surface reconstruction of transparent objects using laser scanning with LTFtF method. Optics and Lasers in Engineering, 2022, 148, 106774.	2.0	17
78	Computing n-finger force-closure grasps on polygonal objects. , 0, , .		16
79	Design and analysis of a novel active screw-drive pipe robot. Advances in Mechanical Engineering, 2018, 10, 168781401880138.	0.8	16
80	RGB-D SLAM Using Pointâ€“Plane Constraints for Indoor Environments. Sensors, 2019, 19, 2721.	2.1	16
81	Hand-Eye Calibration of Surgical Instrument for Robotic Surgery Using Interactive Manipulation. IEEE Robotics and Automation Letters, 2020, 5, 1540-1547.	3.3	16
82	Control of a Flexible Continuum Manipulator for Laser Beam Steering. IEEE Robotics and Automation Letters, 2021, 6, 1074-1081.	3.3	16
83	Modeling and Motion Control of Industrial Tractorâ€“Trailers Vehicles Using Force Compensation. IEEE/ASME Transactions on Mechatronics, 2021, 26, 645-656.	3.7	16
84	A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 815-828.	5.9	15
85	Data-driven Holistic Framework for Automated Laparoscope Optimal View Control with Learning-based Depth Perception. , 2021, , .		15
86	Task driven dynamic QoS based bandwidth allocation for real-time teleoperation via the Internet. , 0, , .		14
87	A wearable stereo vision system for visually impaired. , 2012, , .		14
88	An efficient algorithm for computing a 3D form-closure grasp. , 0, , .		13
89	Feedback linearization of the nonlinear model of a small-scale helicopter. Journal of Control Theory and Applications, 2010, 8, 301-308.	0.8	13
90	Vision-based tracking control of nonholonomic mobile robots without position measurement. , 2013, , .		13

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91	Visually servoed deformation control by robot manipulators. , 2013, , .		13
92	SE(2)-Constrained Visual Inertial Fusion for Ground Vehicles. IEEE Sensors Journal, 2018, 18, 9699-9707.	2.4	13
93	Vision-Based Robotic Grasping and Manipulation of USB Wires. , 2018, , .		13
94	A Grasping Component Mapping Approach for Soft Robotic End-Effector Control. , 2019, , .		13
95	Developing a Parallel Robot for MRI-Guided Breast Intervention. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 17-27.	2.1	13
96	Fully Uncalibrated Image-Based Visual Servoing of 2DOFs Planar Manipulators With a Fixed Camera. IEEE Transactions on Cybernetics, 2022, 52, 10895-10908.	6.2	13
97	EILâ€SLAM: Depthâ€enhanced edgeâ€based infraredâ€LiDAR SLAM. Journal of Field Robotics, 2022, 39, 117-130.	3.2	13
98	Modeling and cooperation of two-arm robotic system manipulating a deformable object. , 0, , .		12
99	A case study of 3D stereoscopic vs. 2D monoscopic tele-reality in real-time dexterous teleoperation. , 2005, , .		12
100	Development of an eye-gaze controlled interface for surgical manipulators using eye-tracking glasses. , 2016, , .		12
101	A Unified Controller for Region-reaching and Deforming of Soft Objects. , 2018, , .		12
102	Line-based Absolute and Relative Camera Pose Estimation in Structured Environments. , 2019, , .		12
103	Calibration-Free Image-Based Trajectory Tracking Control of Mobile Robots With an Overhead Camera. IEEE Transactions on Automation Science and Engineering, 2020, 17, 933-946.	3.4	12
104	A Real-Time 3D Laparoscopic Imaging System: Design, Method, and Validation. IEEE Transactions on Biomedical Engineering, 2020, 67, 2683-2695.	2.5	12
105	Purely Image-Based Pose Stabilization of Nonholonomic Mobile Robots With a Truly Uncalibrated Overhead Camera. IEEE Transactions on Robotics, 2020, 36, 724-742.	7.3	12
106	View Transfer on Human Skeleton Pose: Automatically Disentangle the View-Variant and View-Invariant Information for Pose Representation Learning. International Journal of Computer Vision, 2021, 129, 1-22.	10.9	12
107	Modified Smith Predictor and Controller for Time-Delay Process with Uncertainty. , 2006, , .		11
108	Detection of moving targets with a moving camera. , 2009, , .		11

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109	Automatic calibration for inertial measurement unit. , 2012, , .		11
110	Hand-Writing Motion Tracking with Vision-Inertial Sensor Fusion: Calibration and Error Correction. Sensors, 2014, 14, 15641-15657.	2.1	11
111	Bio-inspired falling motion control for a biped humanoid robot. , 2014, , .		11
112	Design of a three-segment continuum robot for minimally invasive surgery. Robotics and Biomimetics, 2016, 3, 2.	1.7	11
113	Natural Feature-based Visual Servoing for Grasping Target with an Aerial Manipulator. Journal of Bionic Engineering, 2020, 17, 215-228.	2.7	11
114	Dynamic State Estimation and Control of a Heavy Tractorâ€“Trailers Vehicle. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1467-1478.	3.7	11
115	Accurate instance segmentation of surgical instruments in robotic surgery: model refinement and cross-dataset evaluation. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1607-1614.	1.7	11
116	Toward Image-Guided Automated Suture Grasping Under Complex Environments: A Learning-Enabled and Optimization-Based Holistic Framework. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3794-3808.	3.4	11
117	Uncalibrated visual tracking control without visual velocity. , 0, , .		10
118	A new circular-guided remote center of motion mechanism for assistive surgical robots. , 2014, , .		10
119	A dynamic and uncalibrated method to visually servo-control elastic deformations by fully-constrained robotic grippers. , 2014, , .		10
120	Formation control of quadrotor UAVs without linear velocity measurements. , 2017, , .		10
121	Robust Visual Compass Using Hybrid Features for Indoor Environments. Electronics (Switzerland), 2019, 8, 220.	1.8	10
122	Modelling and Dynamic Tracking Control of Industrial Vehicles with Tractor-trailer Structure. , 2019, , .		10
123	Quasi-Globally Optimal and Near/True Real-Time Vanishing Point Estimation in Manhattan World. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1503-1518.	9.7	10
124	Autonomous State Estimation and Mapping in Unknown Environments With Onboard Stereo Camera for Micro Aerial Vehicles. IEEE Transactions on Industrial Informatics, 2020, 16, 5746-5756.	7.2	10
125	One to Many: Adaptive Instrument Segmentation via Meta Learning and Dynamic Online Adaptation in Robotic Surgical Video. , 2021, , .		10
126	Automated 3-D Deformation of a Soft Object Using a Continuum Robot. IEEE Transactions on Automation Science and Engineering, 2021, 18, 2076-2086.	3.4	10

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127	A Learning-Driven Framework with Spatial Optimization For Surgical Suture Thread Reconstruction and Autonomous Grasping Under Multiple Topologies and Environmental Noises. , 2020, , .		10
128	The synthesis of 3-D form-closure grasps. Robotica, 2000, 18, 51-58.	1.3	9
129	Computing 3-D optimal form-closure grasps. , 0, , .		9
130	Design and hydrodynamic modeling of a lake surface cleaning robot. , 2008, , .		9
131	Distributed target tracking with energy consideration using mobile sensor networks. , 2008, , .		9
132	Automated Transportation of Biological Cells for Multiple Processing Steps in Cell Surgery. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1712-1721.	3.4	9
133	Global Vision-Based Impedance Control for Robotic Wall Polishing. , 2019, , .		9
134	Grasping Objects Mixed With Towels. IEEE Access, 2020, 8, 129338-129346.	2.6	9
135	Design and control of a bionic needle puncture robot. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2200.	1.2	9
136	Honeycomb Jamming: An Enabling Technology of Variable Stiffness Reconfiguration. Soft Robotics, 2021, 8, 720-734.	4.6	9
137	PlaTe: Visually-Grounded Planning With Transformers in Procedural Tasks. IEEE Robotics and Automation Letters, 2022, 7, 4924-4930.	3.3	9
138	Co-operative control of internet based multi-robot systems with force reflection. , 0, , .		8
139	Motion sensing for robot hands using MIDS. , 0, , .		8
140	Dynamic Visual Servoing of Robots Using Uncalibrated Eye-in-hand Visual Feedback. , 2006, , .		8
141	Real-Time Mobile Robot Teleoperation over IP Networks Based on Predictive Control. , 2007, , .		8
142	Self-rescue mechanism for screw drive in-pipe robots. , 2010, , .		8
143	Vision-based intelligent forklift Automatic Guided Vehicle (AGV). , 2015, , .		8
144	Automatic Simultaneous Extrinsic-Odometric Calibration for Camera-Odometry System. IEEE Sensors Journal, 2018, 18, 348-355.	2.4	8

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145	Constraint Gaussian Filter With Virtual Measurement for On-Line Camera-Odometry Calibration. IEEE Transactions on Robotics, 2018, 34, 630-644.	7.3	8
146	Robust Model-Predictive Deformation Control of a Soft Object by Using a Flexible Continuum Robot. , 2018, , .		8
147	A Reconfigurable Variable Stiffness Manipulator by a Sliding Layer Mechanism. , 2019, , .		8
148	A Hierarchical Framework for Coordinating Large-Scale Robot Networks. , 2019, , .		8
149	MVPointNet: Multi-View Network for 3D Object Based on Point Cloud. IEEE Sensors Journal, 2019, 19, 12145-12152.	2.4	8
150	Active Stereo 3-D Surface Reconstruction Using Multistep Matching. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2130-2144.	3.4	8
151	Spotlight-Based 3D Instrument Guidance for Autonomous Task in Robot-Assisted Retinal Surgery. IEEE Robotics and Automation Letters, 2021, 6, 7750-7757.	3.3	8
152	Model-Free Adaptive Impedance Control for Autonomous Robotic Sanding. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3601-3611.	3.4	8
153	Position and force tracking of a two-manipulator system manipulating a flexible beam payload. , 0, , .		7
154	Improving the Operation Efficiency of Supermedia Enhanced Internet Based Teleoperation via an Overlay Network. , 0, , .		7
155	System identification and attitude control of a small scale unmanned helicopter. , 2009, , .		7
156	An adaptive controller for image-based visual servoing of robot manipulators. , 2010, , .		7
157	Multi-feature based high-speed ball shape target tracking. , 2015, , .		7
158	Adaptive 3D pose computation of suturing needle using constraints from static monocular image feedback. , 2016, , .		7
159	Seamless stitching of large area UAV images using modified camera matrix. , 2016, , .		7
160	Energy-efficient control of a screw-drive pipe robot with consideration of actuatorâ€™s characteristics. Robotics and Biomimetics, 2016, 3, 11.	1.7	7
161	Image-Based Trajectory Tracking Control of 4-DoF Laparoscopic Instruments Using a Rotation Distinguishing Marker. IEEE Robotics and Automation Letters, 2017, 2, 1586-1592.	3.3	7
162	Cooperative robotic soldering of flexible PCBs. , 2017, , .		7

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163	Visual Grasping for a Lightweight Aerial Manipulator Based on NSGA-II and Kinematic Compensation. , 2018, , .		7
164	Vision-Based Dynamic Control of Car-Like Mobile Robots. , 2019, , .		7
165	Sequential Robotic Manipulation for Active Shape Control of Deformable Linear Objects. , 2019, , .		7
166	Online Trajectory Planning for an Industrial Tractor Towing Multiple Full Trailers. , 2020, , .		7
167	Eye Gaze Based 3D Triangulation for Robotic Bionic Eyes. Sensors, 2020, 20, 5271.	2.1	7
168	Consensus With Persistently Exciting Couplings and Its Application to Vision-Based Estimation. IEEE Transactions on Cybernetics, 2021, 51, 2801-2812.	6.2	7
169	An Optimized Tilt Mechanism for a New Steady-Hand Eye Robot. , 2020, 2020, 3105-3111.		7
170	Accurate 3D Reconstruction of Dynamic Objects by Spatial-Temporal Multiplexing and Motion-Induced Error Elimination. IEEE Transactions on Image Processing, 2022, 31, 2106-2121.	6.0	7
171	An integrated tactile feedback system for multifingered robot hands. , 0, , .		6
172	Adaptive Image-Based Trajectory Tracking of Robots. , 0, , .		6
173	Design and shape control of a three-section continuum robot. , 2016, , .		6
174	ClusterMap Building and Relocalization in Urban Environments for Unmanned Vehicles. Sensors, 2019, 19, 4252.	2.1	6
175	A Multi-Sensor Fusion Based 2D-Driven 3D Object Detection Approach for Large Scene Applications. , 2019, , .		6
176	A Synchronization Approach for Achieving Cooperative Adaptive Cruise Control Based Non-Stop Intersection Passing. , 2020, , .		6
177	HMTNet: 3D Hand Pose Estimation From Single Depth Image Based on Hand Morphological Topology. IEEE Sensors Journal, 2020, 20, 6004-6011.	2.4	6
178	Largeâ€Scale Surface Shape Sensing with Learningâ€Based Computational Mechanics. Advanced Intelligent Systems, 2021, 3, 2100089.	3.3	6
179	Fuzzy-Depth Objects Grasping Based on FSG Algorithm and a Soft Robotic Hand. , 2021, , .		6
180	A CAM-Based Weakly Supervised Method for Surface Defect Inspection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	6

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181	Real-time bilateral control of Internet-based teleoperation. , 0, , .		5
182	Adaptive motion control of manipulators with uncalibrated visual feedback. , 0, , .		5
183	Force passivity in fixturing and grasping. , 0, , .		5
184	Dynamic Visual Servoing of Robots in Uncalibrated Environments. , 0, , .		5
185	Dynamic visual servoing of robots in uncalibrated environments. , 2005, , .		5
186	Two distributed algorithms for heterogeneous sensor network deployment towards maximum coverage. , 2008, , .		5
187	Global asymptotic stabilization control of a lake surface cleaning robot. , 2009, , .		5
188	Nonlinear robust control of a small-scale helicopter on a test bench. International Journal of Control, 2010, 83, 761-775.	1.2	5
189	Nonlinear predictive attitude control with a disturbance observer of an unmanned helicopter on the test bench. , 2011, , .		5
190	Stable force/position control of a robotic endoscope holder for constrained tasks in nasal surgery. , 2011, , .		5
191	A novel lane changing algorithm with efficient method of lane detection. , 2013, , .		5
192	A segmentation algorithm for Mycobacterium Tuberculosis images based on automatic-marker watershed transform. , 2014, , .		5
193	Real-time implementation of harris corner detection system based on FPGA. , 2017, , .		5
194	A robotized interior work process planning algorithm based on surface minimum coverage set. , 2017, , .		5
195	Vision-Based State Estimation and Trajectory Tracking Control of Car-Like Mobile Robots with Wheel Skidding and Slipping. , 2018, , .		5
196	SLAM-based 3D Line Reconstruction. , 2018, , .		5
197	Imageâ€Based 3D Pose Reconstruction of Surgical Needle for Robotâ€Assisted Laparoscopic Suturing. Chinese Journal of Electronics, 2018, 27, 476-482.	0.7	5
198	Development of an Autonomous Sanding Robot with Structured-Light Technology. , 2019, , .		5

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199	Highly Reflective Surface Measurement Based On Dual Stereo Monocular Structured Light System Fusion. , 2019, , .		5
200	Development of an Autonomous Soldering Robot for USB Wires. , 2020, , .		5
201	3-D Dense Rangefinder Sensor With a Low-Cost Scanning Mechanism. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	5
202	A 22-DOFs Bio-inspired Soft Hand Achieving 6 Kinds of In-hand Manipulation. , 2021, , .		5
203	Grasp planning with kinematic constraints. , 0, , .		5
204	Deformation Control of a Deformable Object Based on Visual and Tactile Feedback. , 2021, , .		5
205	3D surface reconstruction of transparent objects using laser scanning with a four-layers refinement process. Optics Express, 2022, 30, 8571.	1.7	5
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