

Yun-Hui Liu

List of Publications by Year in descending order

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361
papers

5,016
citations

126858

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all docs

361
docs citations

361
times ranked

3163
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Vision-Based Control of an Industrial Vehicle in Unstructured Environments. IEEE Transactions on Control Systems Technology, 2022, 30, 598-610.	3.2	3
3	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
4	3D Surface reconstruction of transparent objects using laser scanning with LTFtF method. Optics and Lasers in Engineering, 2022, 148, 106774.	2.0	17
5	EIL-ESLAM: Depth-enhanced edge-based infrared-LiDAR SLAM. Journal of Field Robotics, 2022, 39, 117-130.	3.2	13
6	Unsupervised feature disentanglement for video retrieval in minimally invasive surgery. Medical Image Analysis, 2022, 75, 102296.	7.0	4
7	Model-Free Adaptive Impedance Control for Autonomous Robotic Sanding. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3601-3611.	3.4	8
8	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
9	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
10	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
11	3D surface reconstruction of transparent objects using laser scanning with a four-layers refinement process. Optics Express, 2022, 30, 8571.	1.7	5
12	Learning-Based Fabric Folding and Box Wrapping. IEEE Robotics and Automation Letters, 2022, 7, 5703-5710.	3.3	3
13	PlaTe: Visually-Grounded Planning With Transformers in Procedural Tasks. IEEE Robotics and Automation Letters, 2022, 7, 4924-4930.	3.3	9
14	A CAM-Based Weakly Supervised Method for Surface Defect Inspection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	6
15	Learning Laparoscope Actions via Video Features for Proactive Robotic Field-of-View Control. IEEE Robotics and Automation Letters, 2022, 7, 6653-6660.	3.3	5
16	A Unified Monocular Camera-Based and Pattern-Free Hand-to-Eye Calibration Algorithm for Surgical Robots With RCM Constraints. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5124-5135.	3.7	3
17	Robot-Enabled Uterus Manipulator for Laparoscopic Hysterectomy With Soft RCM Constraints: Design, Control, and Evaluation. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 656-666.	2.1	5
18	Modular Origami Soft Robot with the Perception of Interaction Force and Body Configuration. Advanced Intelligent Systems, 2022, 4, .	3.3	22

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19	Concepts and Trends in Autonomy for Robot-Assisted Surgery. Proceedings of the IEEE, 2022, 110, 993-1011.	16.4	20
20	Towards Robust Part-aware Instance Segmentation for Industrial Bin Picking. , 2022, , .		4
21	3D Perception based Imitation Learning under Limited Demonstration for Laparoscope Control in Robotic Surgery. , 2022, , .		5
22	Design and control of a bionic needle puncture robot. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2200.	1.2	9
23	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
24	3-D Dense Rangefinder Sensor With a Low-Cost Scanning Mechanism. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	5
25	Dynamic State Estimation and Control of a Heavy Tractor's Trailers Vehicle. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1467-1478.	3.7	11
26	Consensus With Persistently Exciting Couplings and Its Application to Vision-Based Estimation. IEEE Transactions on Cybernetics, 2021, 51, 2801-2812.	6.2	7
27	Honeycomb Jamming: An Enabling Technology of Variable Stiffness Reconfiguration. Soft Robotics, 2021, 8, 720-734.	4.6	9
28	Control of a Flexible Continuum Manipulator for Laser Beam Steering. IEEE Robotics and Automation Letters, 2021, 6, 1074-1081.	3.3	16
29	Modeling and Motion Control of Industrial Tractor's Trailers Vehicles Using Force Compensation. IEEE/ASME Transactions on Mechatronics, 2021, 26, 645-656.	3.7	16
30	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
31	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
32	A Dexterous Origami-inspired Soft (DOIS) Robot for Objects Reorientation and Overturn. , 2021, , .		1
33	Parameter Estimation of an Industrial Car-Like Tractor. IEEE Robotics and Automation Letters, 2021, 6, 4480-4487.	3.3	4
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	A 22-DOFs Bio-inspired Soft Hand Achieving 6 Kinds of In-hand Manipulation. , 2021, , .		5
36	Large-scale Surface Shape Sensing with Learning-based Computational Mechanics. Advanced Intelligent Systems, 2021, 3, 2100089.	3.3	6

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37	Soft robotic manipulator for intraoperative MRI-guided transoral laser microsurgery. <i>Science Robotics</i> , 2021, 6, .	9.9	54
38	Anchor-guided online meta adaptation for fast one-Shot instrument segmentation from robotic surgical videos. <i>Medical Image Analysis</i> , 2021, 74, 102240.	7.0	4
39	Spotlight-Based 3D Instrument Guidance for Autonomous Task in Robot-Assisted Retinal Surgery. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 7750-7757.	3.3	8
40	Data-driven Holistic Framework for Automated Laparoscope Optimal View Control with Learning-based Depth Perception. , 2021, , .		15
41	One to Many: Adaptive Instrument Segmentation via Meta Learning and Dynamic Online Adaptation in Robotic Surgical Video. , 2021, , .		10
42	Automated 3-D Deformation of a Soft Object Using a Continuum Robot. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 2076-2086.	3.4	10
43	Learning to Identify Correct 2D-2D Line Correspondences on Sphere. , 2021, , .		2
44	Tele-Operated Oropharyngeal Swab (TOOS) Robot Enabled by TSS Soft Hand for Safe and Effective Sampling. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021, 3, 1040-1053.	2.1	18
45	Fuzzy-Depth Objects Grasping Based on FSG Algorithm and a Soft Robotic Hand. , 2021, , .		6
46	Deformation Control of a Deformable Object Based on Visual and Tactile Feedback. , 2021, , .		5
47	Development of a Vision-Based Robotic Manipulation System for Transferring of Oocytes. , 2021, , .		3
48	SurRoL: An Open-source Reinforcement Learning Centered and dVRK Compatible Platform for Surgical Robot Learning. , 2021, , .		22
49	Pole-like Objects Mapping and Long-Term Robot Localization in Dynamic Urban Scenarios. , 2021, , .		4
50	Low-Drift RGB-D SLAM with Room Reconstruction Using Scene Understanding. , 2021, , .		0
51	Bio-inspired Soft (BIS) Hand for Tele-operated COVID-19 Oropharyngeal (OP) Swab Sampling. , 2021, , .		3
52	A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 815-828.	5.9	15
53	Foot-Controlled Robot-Enabled EndoScope Manipulator (FREEDOM) for Sinus Surgery: Design, Control, and Evaluation. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1530-1541.	2.5	28
54	Calibration-Free Image-Based Trajectory Tracking Control of Mobile Robots With an Overhead Camera. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020, 17, 933-946.	3.4	12

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55	Robust Path Following of the Tractor-Trailers System in GPS-Denied Environments. IEEE Robotics and Automation Letters, 2020, 5, 500-507.	3.3	23
56	Research on Unmanned System Vision SLAM Technology. , 2020, , .		0
57	Online Trajectory Planning for an Industrial Tractor Towing Multiple Full Trailers. , 2020, , .		7
58	Robust and Efficient Estimation of Absolute Camera Pose for Monocular Visual Odometry. , 2020, , .		1
59	Grasping Objects Mixed With Towels. IEEE Access, 2020, 8, 129338-129346.	2.6	9
60	Amphibious Robot's Trajectory Tracking with DNN-Based Nonlinear Model Predictive Control. , 2020, , .		1
61	A Spatial-temporal Multiplexing Method for Dense 3D Surface Reconstruction of Moving Objects. , 2020, , .		2
62	A Synchronization Approach for Achieving Cooperative Adaptive Cruise Control Based Non-Stop Intersection Passing. , 2020, , .		6
63	Eye Gaze Based 3D Triangulation for Robotic Bionic Eyes. Sensors, 2020, 20, 5271.	2.1	7
64	Development of an Autonomous Soldering Robot for USB Wires. , 2020, , .		5
65	Adaptive Variable Stiffness Particle Phalange for Robust and Durable Robotic Grasping. Soft Robotics, 2020, 7, 743-757.	4.6	57
66	A Real-Time 3D Laparoscopic Imaging System: Design, Method, and Validation. IEEE Transactions on Biomedical Engineering, 2020, 67, 2683-2695.	2.5	12
67	Active Stereo 3-D Surface Reconstruction Using Multistep Matching. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2130-2144.	3.4	8
68	Leader-Following Formation Control of Nonholonomic Mobile Robots With Velocity Observers. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1747-1755.	3.7	29
69	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
70	Robust Estimation of Absolute Camera Pose via Intersection Constraint and Flow Consensus. IEEE Transactions on Image Processing, 2020, 29, 6615-6629.	6.0	4
71	HMTNet: 3D Hand Pose Estimation From Single Depth Image Based on Hand Morphological Topology. IEEE Sensors Journal, 2020, 20, 6004-6011.	2.4	6
72	Uncertainty Analysis of 3D Line Reconstruction in a New Minimal Spatial Line Representation. Applied Sciences (Switzerland), 2020, 10, 1096.	1.3	2

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73	LPD-AE: Latent Space Representation of Large-Scale 3D Point Cloud. IEEE Access, 2020, 8, 108402-108417.	2.6	4
74	Hand-Eye Calibration of Surgical Instrument for Robotic Surgery Using Interactive Manipulation. IEEE Robotics and Automation Letters, 2020, 5, 1540-1547.	3.3	16
75	Developing a Parallel Robot for MRI-Guided Breast Intervention. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 17-27.	2.1	13
76	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
77	A Proprioceptive Bellows (PB) Actuator With Position Feedback and Force Estimation. IEEE Robotics and Automation Letters, 2020, 5, 1867-1874.	3.3	36
78	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
79	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
80	Natural Feature-based Visual Servoing for Grasping Target with an Aerial Manipulator. Journal of Bionic Engineering, 2020, 17, 215-228.	2.7	11
81	Deep-Learning Based Robotic Manipulation of Flexible PCBs. , 2020, , .		3
82	Unsupervised 3D Human Pose Representation with Viewpoint and Pose Disentanglement. Lecture Notes in Computer Science, 2020, , 102-118.	1.0	39
83	An Optimized Tilt Mechanism for a New Steady-Hand Eye Robot. IEEE International Conference on Intelligent Robots and Systems, 2020, 2020, 3105-3111.	0.6	1
84	Force-based Safe Vein Cannulation in Robot-assisted Retinal Surgery: A Preliminary Study. , 2020, 2020, .		0
85	A Learning-Driven Framework with Spatial Optimization For Surgical Suture Thread Reconstruction and Autonomous Grasping Under Multiple Topologies and Environmental Noises. , 2020, , .		10
86	50 Benchmarks for Anthropomorphic Hand Function-based Dexterity Classification and Kinematics-based Hand Design. , 2020, , .		4
87	Robust Dynamic State Estimation for Lateral Control of an Industrial Tractor Towing Multiple Passive Trailers. , 2020, , .		0
88	An Optimized Tilt Mechanism for a New Steady-Hand Eye Robot. , 2020, 2020, 3105-3111.		7
89	Force-based Safe Vein Cannulation in Robot-assisted Retinal Surgery: A Preliminary Study. , 2020, 2020, .		0
90	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

#	ARTICLE	IF	CITATIONS
91	A Reconfigurable Variable Stiffness Manipulator by a Sliding Layer Mechanism. , 2019, , .		8
92	Augmented Reality Assisted Instrument Insertion and Tool Manipulation for the First Assistant in Robotic Surgery. , 2019, , .		20
93	Vision-Based Dynamic Control of Car-Like Mobile Robots. , 2019, , .		7
94	A Hierarchical Framework for Coordinating Large-Scale Robot Networks. , 2019, , .		8
95	RGB-D SLAM Using Point-Plane Constraints for Indoor Environments. Sensors, 2019, 19, 2721.	2.1	16
96	A Grasping Component Mapping Approach for Soft Robotic End-Effector Control. , 2019, , .		13
97	Multi-Task Learning Using Task Dependencies for Face Attributes Prediction. Applied Sciences (Switzerland), 2019, 9, 2535.	1.3	1
98	MVPointNet: Multi-View Network for 3D Object Based on Point Cloud. IEEE Sensors Journal, 2019, 19, 12145-12152.	2.4	8
99	Leveraging Structural Regularity of Atlanta World for Monocular SLAM. , 2019, , .		29
100	3D Surface Reconstruction Using A Two-Step Stereo Matching Method Assisted with Five Projected Patterns. , 2019, , .		3
101	ClusterMap Building and Relocalization in Urban Environments for Unmanned Vehicles. Sensors, 2019, 19, 4252.	2.1	6
102	Fast Visual Odometry Based Sparse Geometric Constraint for RGB-D Camera. IEICE Transactions on Information and Systems, 2019, E102.D, 214-218.	0.4	0
103	Dual-Arm Robotic Needle Insertion With Active Tissue Deformation for Autonomous Suturing. IEEE Robotics and Automation Letters, 2019, 4, 2669-2676.	3.3	51
104	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
105	Appearance-Based Gaze Estimator for Natural Interaction Control of Surgical Robots. IEEE Access, 2019, 7, 25095-25110.	2.6	17
106	Plane Based Visual Odometry for Structural and Low-Texture Environments Using RGB-D Sensors. , 2019, , .		4
107	Robust Visual Compass Using Hybrid Features for Indoor Environments. Electronics (Switzerland), 2019, 8, 220.	1.8	10
108	Picking Towels in Point Clouds. Sensors, 2019, 19, 713.	2.1	2

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109	Efficient Fully Convolution Neural Network for Generating Pixel Wise Robotic Grasps With High Resolution Images. , 2019, , .		34
110	Development of an Autonomous Sanding Robot with Structured-Light Technology. , 2019, , .		5
111	Vision-Based Grasping and Manipulation of Flexible USB Wires. , 2019, , .		4
112	Adaptive Vision-Based Control for Rope-Climbing Robot Manipulator. , 2019, , .		2
113	A Multi-Sensor Fusion Based 2D-Driven 3D Object Detection Approach for Large Scene Applications. , 2019, , .		6
114	Vision Based Topological State Recognition for Deformable Linear Object Untangling Conducted in Unknown Background. , 2019, , .		4
115	Alignment of an Unmarked Deformable Sheet Like Object Based on NURBS Fitting. , 2019, , .		0
116	Task-oriented Impedance Control for Integrated Autonomous Cleaning Manipulator. , 2019, , .		2
117	Quasi-Globally Optimal and Efficient Vanishing Point Estimation in Manhattan World. , 2019, , .		20
118	Modelling and Dynamic Tracking Control of Industrial Vehicles with Tractor-trailer Structure. , 2019, , .		10
119	Sequential Robotic Manipulation for Active Shape Control of Deformable Linear Objects. , 2019, , .		7
120	Automatic Acquisition of Point Clouds of Construction Sites and Its Application in Autonomous Interior Finishing Robot. , 2019, , .		4
121	Global Vision-Based Impedance Control for Robotic Wall Polishing. , 2019, , .		9
122	Highly Reflective Surface Measurement Based On Dual Stereo Monocular Structured Light System Fusion. , 2019, , .		5
123	Line-based Absolute and Relative Camera Pose Estimation in Structured Environments. , 2019, , .		12
124	SeqLPD: Sequence Matching Enhanced Loop-Closure Detection Based on Large-Scale Point Cloud Description for Self-Driving Vehicles. , 2019, , .		34
125	Vision-Based Adaptive Impedance Control for Robotic Polishing. , 2019, , .		3
126	Swan-Inspired Unmanned Aerial Vehicles With Long-neck Visual Perception System. , 2019, , .		2

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127	A Vision-Assisted Semi-Automatic Uterus Manipulation Approach Based on a Pose Estimating Trocar. , 2019, , .		2
128	Optimal Design of Bionic Flexible Fixation System for MRI-Guided Breast Biopsy. Journal of Bionic Engineering, 2019, 16, 1116-1126.	2.7	3
129	Adaptive Vision-Based Control for Robotic Tiling with Uncalibrated Cameras and Limited FOV. , 2019, , .		3
130	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
131	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
132	Automatic Simultaneous Extrinsic-Odometric Calibration for Camera-Odometry System. IEEE Sensors Journal, 2018, 18, 348-355.	2.4	8
133	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
134	Formation Control of Nonholonomic Mobile Robots Without Position and Velocity Measurements. IEEE Transactions on Robotics, 2018, 34, 434-446.	7.3	90
135	Iterative learning impedance control for rehabilitation robots driven by series elastic actuators. Automatica, 2018, 90, 1-7.	3.0	117
136	Constraint Gaussian Filter With Virtual Measurement for On-Line Camera-Odometry Calibration. IEEE Transactions on Robotics, 2018, 34, 630-644.	7.3	8
137	Adaptive Visual Servoing of Contour Features. IEEE/ASME Transactions on Mechatronics, 2018, 23, 811-822.	3.7	46
138	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
139	Saturated PID Control for the Optical Manipulation of Biological Cells. IEEE Transactions on Control Systems Technology, 2018, 26, 1909-1916.	3.2	29
140	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
141	A child caring robot for the dangerous behavior detection based on the object recognition and human action recognition. , 2018, , .		3
142	A 3D Laparoscopic Imaging System Based on Stereo-Photogrammetry with Random Patterns. , 2018, , .		4
143	3D SLAM Applied to an Autonomous Interior Finishing Robot. , 2018, , .		2
144	Adaptive Impedance Control for Compliantly Actuated Robots with a Unified Safety Measure. , 2018, , .		4

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145	Keypoint Matching Outlier Removal with 3DMP Histogram Voting*. , 2018, , .		0
146	An Integrated Estimation Scheme for Resolving Tire Deformation Problem of Autonomous Vehicles. , 2018, , .		1
147	Vision Based Cable Assembly in Constrained Environment. , 2018, , .		3
148	A Unified Controller for Region-reaching and Deforming of Soft Objects. , 2018, , .		12
149	FPGA-based Implementation of Hand Gesture Recognition Using Convolutional Neural Network. , 2018, , .		3
150	Vision-Based State Estimation and Trajectory Tracking Control of Car-Like Mobile Robots with Wheel Skidding and Slipping. , 2018, , .		5
151	SLAM-based 3D Line Reconstruction. , 2018, , .		5
152	Kinematics Features for 3D Action Recognition Using Two-Stream CNN. , 2018, , .		1
153	Picking and Recognizing System in Cluttered Environment. , 2018, , .		0
154	Visual Grasping for a Lightweight Aerial Manipulator Based on NSGA-II and Kinematic Compensation. , 2018, , .		7
155	Robust Model-Predictive Deformation Control of a Soft Object by Using a Flexible Continuum Robot. , 2018, , .		8
156	A Synchronization Scheme for Position Control of Multiple Rope-Climbing Robots. , 2018, , .		3
157	Vision-Based Robotic Manipulation of Flexible PCBs. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2739-2749.	3.7	29
158	A Failure-Tolerant Approach to Synchronous Formation Control of Mobile Robots Under Communication Delays. , 2018, , .		4
159	SE(2)-Constrained Visual Inertial Fusion for Ground Vehicles. IEEE Sensors Journal, 2018, 18, 9699-9707.	2.4	13
160	Design and analysis of a novel active screw-drive pipe robot. Advances in Mechanical Engineering, 2018, 10, 168781401880138.	0.8	16
161	Vision-Based Robotic Grasping and Manipulation of USB Wires. , 2018, , .		13
162	Task-space cooperative tracking control of multi-robot systems with unknown parameters and time delays. , 2018, , .		2

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163	Image-Based 3D Pose Reconstruction of Surgical Needle for Robot-Assisted Laparoscopic Suturing. Chinese Journal of Electronics, 2018, 27, 476-482.	0.7	5
164	Robot Intelligence for Real World Applications. Chinese Journal of Electronics, 2018, 27, 446-458.	0.7	4
165	Design of an Interactive Control System for a Multisection Continuum Robot. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2379-2389.	3.7	32
166	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
167	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
168	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
169	High-Speed Object Tracking with Its Application in Golf Playing. International Journal of Social Robotics, 2017, 9, 449-461.	3.1	1
170	A Fully Automatic Calibration Algorithm for a Camera Odometry System. IEEE Sensors Journal, 2017, 17, 4208-4216.	2.4	17
171	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
172	Autonomous Wi-Fi Relay Placement With Mobile Robots. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2532-2542.	3.7	22
173	Formation control of quadrotor UAVs without linear velocity measurements. , 2017, , .		10
174	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
175	Adaptive region control for robotic soldering of flexible PCBs. , 2017, , .		2
176	Cooperative robotic soldering of flexible PCBs. , 2017, , .		7
177	Motion control of a tractor with multiple trailers. , 2017, , .		1
178	Hardware implementation of a virtual blind cane on FPGA. , 2017, , .		4
179	Real-time implementation of harris corner detection system based on FPGA. , 2017, , .		5
180	Real-time implementation of vision-based unmarked static hand gesture recognition with neural networks based on FPGAs. , 2017, , .		3

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181	A laser triangulation based on 3D scanner used for an autonomous interior finishing robot. , 2017, , .		3
182	Spiking cortical model for geometry invariant and antinoise texture retrieval. , 2017, , .		1
183	A robotized interior work process planning algorithm based on surface minimum coverage set. , 2017, , .		5
184	A structured light based measuring system used for an autonomous interior finishing robot. , 2017, , .		2
185	Footâ€controlled roboticâ€enabled endoscope holder for endoscopic sinus surgery: A cadaveric feasibility study. Laryngoscope, 2016, 126, 566-569.	1.1	28
186	Contrast Enhancement of Mycobacterium Tuberculosis Images Based on Improved Histogram Equalization. IEICE Transactions on Information and Systems, 2016, E99.D, 2847-2850.	0.4	0
187	Development of an eye-gaze controlled interface for surgical manipulators using eye-tracking glasses. , 2016, , .		12
188	Pose graph optimization with hierarchical conditionally independent graph partitioning. , 2016, , .		0
189	Adaptive 3D pose computation of suturing needle using constraints from static monocular image feedback. , 2016, , .		7
190	High-speed target tracking base on FPGA. , 2016, , .		3
191	A new algorithm for obstacle segmentation in dynamic environments using a RGB-D sensor. , 2016, , .		2
192	Real-time target tracking and positioning on FPGA. , 2016, , .		2
193	Seamless stitching of large area UAV images using modified camera matrix. , 2016, , .		7
194	Leader-Following Formation Tracking Control of Mobile Robots Without Direct Position Measurements. IEEE Transactions on Automatic Control, 2016, 61, 4131-4137.	3.6	85
195	Design of a three-segment continuum robot for minimally invasive surgery. Robotics and Biomimetics, 2016, 3, 2.	1.7	11
196	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
197	Design and shape control of a three-section continuum robot. , 2016, , .		6
198	An Algorithm of Connecting Broken Objects Based on the Skeletons. IEICE Transactions on Information and Systems, 2016, E99.D, 2832-2835.	0.4	0

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