Max Q-H Meng

List of Publications by Year
in descending order

419 papers	6,568 citations	109264 35 h-index	128225 60 g-index
420 all docs	420 docs citations	420 times ranked	4155 citing authors

#	Article	IF	Citations
1	Improving RGB-D SLAM in dynamic environments: A motion removal approach. Robotics and Autonomous Systems, 2017, 89, 110-122.	3.0	265
2	Neural RRT*: Learning-Based Optimal Path Planning. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1748-1758.	3.4	193
3	Deep learning for polyp recognition in wireless capsule endoscopy images. Medical Physics, 2017, 44, 1379-1389.	1.6	150
4	A Bioinspired Neurodynamics-Based Approach to Tracking Control of Mobile Robots. IEEE Transactions on Industrial Electronics, 2012, 59, 3211-3220.	5.2	139
5	Motion removal for reliable RGB-D SLAM in dynamic environments. Robotics and Autonomous Systems, 2018, 108, 115-128.	3.0	139
6	Bleeding Frame and Region Detection in the Wireless Capsule Endoscopy Video. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 624-630.	3.9	127
7	EFFICIENT MAGNETIC LOCALIZATION AND ORIENTATION TECHNIQUE FOR CAPSULE ENDOSCOPY. International Journal of Information Acquisition, 2005, 02, 23-36.	0.2	126
8	Augmented Bladder Tumor Detection Using Deep Learning. European Urology, 2019, 76, 714-718.	0.9	117
9	A Linear Algorithm for Tracing Magnet Position and Orientation by Using Three-Axis Magnetic Sensors. IEEE Transactions on Magnetics, 2007, 43, 4096-4101.	1.2	110
10	Improved Bag of Feature for Automatic Polyp Detection in Wireless Capsule Endoscopy Images. IEEE Transactions on Automation Science and Engineering, 2016, 13, 529-535.	3.4	94
11	6-D Magnetic Localization and Orientation Method for an Annular Magnet Based on a Closed-Form Analytical Model. IEEE Transactions on Magnetics, 2014, 50, 1-11.	1.2	90
12	A New Tracking System for Three Magnetic Objectives. IEEE Transactions on Magnetics, 2010, 46, 4023-4029.	1.2	87
13	Automatic polyp detection for wireless capsule endoscopy images. Expert Systems With Applications, 2012, 39, 10952-10958.	4.4	85
14	Real-Time Shape Estimation for Wire-Driven Flexible Robots With Multiple Bending Sections Based on Quadratic BÃ©zier Curves. IEEE Sensors Journal, 2015, 15, 6326-6334.	2.4	82
15	A Six-Dimensional Magnetic Localization Algorithm for a Rectangular Magnet Objective Based on a Particle Swarm Optimizer. IEEE Transactions on Magnetics, 2009, 45, 3092-3099.	1.2	76
16	EB-RRT: Optimal Motion Planning for Mobile Robots. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2063-2073.	3.4	74
17	Game-Theoretic Modeling of Joint Topology Control and Power Scheduling for Wireless Heterogeneous Sensor Networks. IEEE Transactions on Automation Science and Engineering, 2009, 6, 610-625.	3.4	73
18	Autonomous mobile robot navigation in uneven and unstructured indoor environments. , 2017, , .		68

#	Article	IF	Citations
19	Power Adaptive Localization Algorithm for Wireless Sensor Networks Using Particle Filter. IEEE Transactions on Vehicular Technology, 2009, 58, 2498-2508.	3.9	66
20	Wireless robotic capsule endoscopy: state-of-the-art and challenges. , 0, , .		65
21	Simultaneous Handâ€“Eye, Toolâ€“Flange, and Robotâ€“Robot Calibration for Comanipulation by Solving the <inline-formula> <tex-math notation="LaTeX">$mathbf{AXB=YCZ}$</tex-math> </inline-formula> Problem. IEEE Transactions on Robotics, 2016, 32, 413-428.	7.3	63
22	Kinematic Constrained Bi-directional RRT with Efficient Branch Pruning for robot path planning. Expert Systems With Applications, 2021, 170, 114541.	4.4	62
23	An Electromagnetic Localization and Orientation Method Based on Rotating Magnetic Dipole. IEEE Transactions on Magnetics, 2013, 49, 1274-1277.	1.2	59
24	Deep Reinforcement Learning Supervised Autonomous Exploration in Office Environments. , 2018, , .		58
25	An Overview of Systems and Techniques for Autonomous Robotic Ultrasound Acquisitions. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 510-524.	2.1	56
26	Radiation Characteristics of Ingestible Wireless Devices in Human Intestine Following Radio Frequency Exposure at 430, 800, 1200, and 2400 MHz. IEEE Transactions on Antennas and Propagation, 2009, 57, 2418-2428.	3.1	55
27	Optimal Path Planning Using Generalized Voronoi Graph and Multiple Potential Functions. IEEE Transactions on Industrial Electronics, 2020, 67, 10621-10630.	5.2	55
28	Wireless Capsule Endoscopy: A New Tool for Cancer Screening in the Colon With Deep-Learning-Based Polyp Recognition. Proceedings of the IEEE, 2020, 108, 178-197.	16.4	53
29	Multiple Objects Positioning and Identification Method Based on Magnetic Localization System. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	52
30	Locating Intra-Body Capsule Object by Three-Magnet Sensing System. IEEE Sensors Journal, 2016, 16, 5167-5176.	2.4	52
31	A Gait Recognition Method for Human Following in Service Robots. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1429-1440.	5.9	52
32	WCE Abnormality Detection Based on Saliency and Adaptive Locality-Constrained Linear Coding. IEEE Transactions on Automation Science and Engineering, 2017, 14, 149-159.	3.4	51
33	An Efficient Magnetic Tracking Method Using Uniaxial Sensing Coil. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	50
34	Improving monocular visual SLAM in dynamic environments: an optical-flow-based approach. Advanced Robotics, 2019, 33, 576-589.	1.1	49
35	WiFi signal strength-based robot indoor localization. , 2014, , .		46
36	Risk-DTRRT-Based Optimal Motion Planning Algorithm for Mobile Robots. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1271-1288.	3.4	46

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37	Design and Optimization Strategy of Sensor Array Layout for Magnetic Localization System. IEEE Sensors Journal, 2017, 17, 1849-1857.	2.4	43
38	Impacts of Robot Head Gaze on Robot-to-Human Handovers. International Journal of Social Robotics, 2015, 7, 783-798.	3.1	42
39	ROBOTICS IN NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350044.	0.3	41
40	Active Perception for Foreground Segmentation: An RGB-D Data-Based Background Modeling Method. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1596-1609.	3.4	37
41	Autonomous Navigation by Mobile Robots in Human Environments: A Survey. , 2018, , .		35
42	Efficient Autonomous Robotic Exploration With Semantic Road Map in Indoor Environments. IEEE Robotics and Automation Letters, 2019, 4, 2989-2996.	3.3	34
43	Robust Visual Localization in Dynamic Environments Based on Sparse Motion Removal. IEEE Transactions on Automation Science and Engineering, 2020, 17, 658-669.	3.4	34
44	Automatic Polyp Recognition in Colonoscopy Images Using Deep Learning and Two-Stage Pyramidal Feature Prediction. IEEE Transactions on Automation Science and Engineering, 2020, , 1-15.	3.4	34
45	Efficient Object Search With Belief Road Map Using Mobile Robot. IEEE Robotics and Automation Letters, 2018, 3, 3081-3088.	3.3	33
46	Quantitative Analyses of Pulse Images in Traditional Chinese Medicine. Medical Acupuncture, 2008, 20, 175-189.	0.3	32
47	Towards simultaneous coordinate calibrations for cooperative multiple robots. , 2014, , .		32
48	6-D Electromagnetic Tracking Approach Using Uniaxial Transmitting Coil and Tri-Axial Magneto-Resistive Sensor. IEEE Sensors Journal, 2018, 18, 1178-1186.	2.4	32
49	Surgical Instrument Tracking By Multiple Monocular Modules and a Sensor Fusion Approach. IEEE Transactions on Automation Science and Engineering, 2019, 16, 629-639.	3.4	32
50	Autonomous Navigation of an Ultrasound Probe Towards Standard Scan Planes with Deep Reinforcement Learning. , 2021, , .		32
51	Variant step size RRT: An efficient path planner for UAV in complex environments. , 2016, , .		30
52	A study on automated segmentation of blood regions in Wireless Capsule Endoscopy images using fully convolutional networks. , 2017, , .		30
53	A Novel System for Closed-Loop Simultaneous Magnetic Actuation and Localization of WCE Based on External Sensors and Rotating Actuation. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1640-1652.	3.4	30
54	Hybrid Adaptive Control Strategy for Continuum Surgical Robot Under External Load. IEEE Robotics and Automation Letters, 2021, 6, 1407-1414.	3.3	30

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55	Zoom in Lesions for Better Diagnosis: Attention Guided Deformation Network for WCE Image Classification. IEEE Transactions on Medical Imaging, 2020, 39, 4047-4059.	5.4	29
56	A survey of the development of biomimetic intelligence and robotics. Biomimetic Intelligence and Robotics, 2021, 1, 100001.	1.1	29
57	A novel FPGA-based wireless vision sensor node. , 2009, , .		28
58	Bleeding detection in wireless capsule endoscopy images by support vector classifier. , 2010, , .		28
59	Towards Occlusion-Free Surgical Instrument Tracking: A Modular Monocular Approach and an Agile Calibration Method. IEEE Transactions on Automation Science and Engineering, 2015, 12, 588-595.	3.4	28
60	Discriminative Joint-Feature Topic Model With Dual Constraints for WCE Classification. IEEE Transactions on Cybernetics, 2018, 48, 2074-2085.	6.2	28
61	SARL: Deep Reinforcement Learning based Human-AwareÂNavigation for Mobile Robot in Indoor Environments. , 2019, , .		28
62	Magnetic Tracking of Wireless Capsule Endoscope in Mobile Setup Based on Differential Signals. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	2.4	28
63	Data Communications for Internet Robots. Autonomous Robots, 2003, 15, 213-223.	3.2	27
64	Biologically Inspired Approaches for Wireless Sensor Networks. , 2006, , .		27
65	Corrections to, â€œRadiation Characteristics of Ingestible Wireless Devices in Human Intestine Following Radio Frequency Exposure at 430, 800, 1200, and 2400 MHzâ€•[Aug 09]. IEEE Transactions on Antennas and Propagation, 2010, 58, 2488-2488.	3.1	27
66	Polyp classification based on Bag of Features and saliency in wireless capsule endoscopy. , 2014, , .		27
67	Joint Rigid Registration of Multiple Generalized Point Sets With Hybrid Mixture Models. IEEE Transactions on Automation Science and Engineering, 2020, 17, 334-347.	3.4	27
68	An Improved 6-D Pose Detection Method Based on Opposing-Magnet Pair System and Constraint Multiple Magnets Tracking Algorithm. IEEE Sensors Journal, 2017, 17, 6752-6759.	2.4	26
69	Finding a High-Quality Initial Solution for the RRTs Algorithms in 2D Environments. Robotica, 2019, 37, 1677-1694.	1.3	26
70	Densely Connected Neural Network With Unbalanced Discriminant and Category Sensitive Constraints for Polyp Recognition. IEEE Transactions on Automation Science and Engineering, 2020, 17, 574-583.	3.4	26
71	Generative Adversarial Network Based Heuristics for Sampling-Based Path Planning. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 64-74.	8.5	26
72	Capsule endoscope localization based on computer vision technique. , 2009, 2009, 3711-4.		25

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73	A novel feature for polyp detection in wireless capsule endoscopy images. , 2014, , .		25
74	Design of a multi-arm concentric-tube robot system for transnasal surgery. Medical and Biological Engineering and Computing, 2020, 58, 497-508.	1.6	25
75	Multipoint Simultaneous Tracking of Wireless Capsule Endoscope Using Magnetic Sensor Array. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	25
76	A Knowledge Based GA for Path Planning of Multiple Mobile Robots in Dynamic Environments. , 2006, , .		24
77	Towards real-time multi-sensor information retrieval in Cloud Robotic System. , 2012, , .		24
78	A Novel Relative Position Estimation Method for Capsule Robot Moving in Gastrointestinal Tract. Sensors, 2019, 19, 2746.	2.1	24
79	Robust Generalized Point Cloud Registration With Orientational Data Based on Expectation Maximization. IEEE Transactions on Automation Science and Engineering, 2020, 17, 207-221.	3.4	24
80	Statistical Model of Total Target Registration Error in Image-Guided Surgery. IEEE Transactions on Automation Science and Engineering, 2020, 17, 151-165.	3.4	24
81	GMR-RRT*: Sampling-Based Path Planning Using Gaussian Mixture Regression. IEEE Transactions on Intelligent Vehicles, 2022, 7, 690-700.	9.4	24
82	An improved magnetic localization and orientation algorithm for wireless capsule endoscope. , 2008, 2008, 2055-8.		23
83	A survey and analysis of task allocation algorithms in multi-robot systems. , 2013, , .		23
84	Robust Generalized Point Cloud Registration with Expectation Maximization Considering Anisotropic Positional Uncertainties. , 2018, , .		23
85	Efficient Autonomous Exploration With Incrementally Built Topological Map in 3-D Environments. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9853-9865.	2.4	23
86	Socially Compliant Path Planning for Robotic Autonomous Luggage Trolley Collection at Airports. Sensors, 2019, 19, 2759.	2.1	22
87	A Novel Magnetic Tracking Approach for Intrabody Objects. IEEE Sensors Journal, 2020, 20, 4976-4984.	2.4	22
88	Faster R-CNN With Classifier Fusion for Automatic Detection of Small Fruits. IEEE Transactions on Automation Science and Engineering, 2020, , 1-15.	3.4	22
89	A survey of learningâ€based robot motion planning. IET Cyber-Systems and Robotics, 2021, 3, 302-314.	1.1	22
90	Two-magnet-based 6D-localization and orientation for wireless capsule endoscope. , 2009, , .		21

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91	Towards cloud robotic system: A case study of online co-localization for fair resource competence. , 2012, , .		21
92	Robotics for Natural Orifice Transluminal Endoscopic Surgery: A Review. Journal of Robotics, 2012, 2012, 1-9.	0.6	20
93	Safe and Robust Mobile Robot Navigation in Uneven Indoor Environments. Sensors, 2019, 19, 2993.	2.1	20
94	Robust Semantic Mapping in Challenging Environments. Robotica, 2020, 38, 256-270.	1.3	20
95	Preliminary study on magnetic tracking-based planar shape sensing and navigation for flexible surgical robots in transoral surgery: methods and phantom experiments. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 241-251.	1.7	20
96	A new calibration method for magnetic sensor array for tracking capsule endoscope. , 2009, , .		19
97	Small bowel tumor detection for wireless capsule endoscopy images using textural features and support vector machine. , 2009, , .		19
98	Detecting ventricular fibrillation by fast algorithm of dynamic sample entropy. , 2009, , .		19
99	An Optically Aided Magnetic Tracking Approach for Magnetically Actuated Capsule Robot. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	19
100	Simple 3-D Point Reconstruction Methods With Accuracy Prediction for Multiocular System. IEEE/ASME Transactions on Mechatronics, 2013, 18, 366-375.	3.7	18
101	Hierarchical auction-based mechanism for real-time resource retrieval in cloud mobile robotic system. , 2014, , .		18
102	Risk-RRT*: A robot motion planning algorithm for the human robot coexisting environment. , 2017, , .		18
103	Design and Optimization of Concentric Tube Robots Based on Surgical Tasks, Anatomical Constraints and Follow-the-Leader Deployment. IEEE Access, 2019, 7, 173612-173625.	2.6	18
104	An Inchworm-like Locomotion Mechanism Based on Magnetic Actuator for Active Capsule Endoscope. , 2006, , .		17
105	Intestinal polyp recognition in capsule endoscopy images using color and shape features. , 2009, , .		17
106	A human-friendly robot navigation algorithm using the risk-RRT approach. , 2016, , .		17
107	Towards autonomous exploration with information potential field in 3D environments. , 2017, , .		17
108	A Novel OCR-RCNN for Elevator Button Recognition. , 2018, , .		17

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109	System Design and Balance Control of a Bipedal Leg-wheeled Robot. , 2019, , .		17
110	Generalized 3-D Point Set Registration With Hybrid Mixture Models for Computer-Assisted Orthopedic Surgery: From Isotropic to Anisotropic Positional Error. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1679-1691.	3.4	17
111	HRENet: A Hard Region Enhancement Network for Polyp Segmentation. Lecture Notes in Computer Science, 2021, , 559-568.	1.0	17
112	Conditional Generative Adversarial Networks for Optimal Path Planning. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 662-671.	2.6	17
113	Deep Koopman Operator With Control for Nonlinear Systems. IEEE Robotics and Automation Letters, 2022, 7, 7700-7707.	3.3	17
114	Rate Control to Reduce Bioeffects in Wireless Biomedical Sensor Networks. , 2006, , .		16
115	A novel wireless capsule endoscope with JPEG compression engine. , 2010, , .		16
116	General first-order TRE model when using a coordinate reference frame for rigid point-based registration. , 2017, , .		16
117	Prior Knowledge-Based Optimization Method for the Reconstruction Model of Multicamera Optical Tracking System. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2074-2084.	3.4	16
118	Pose-Invariant Inertial Odometry for Pedestrian Localization. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	16
119	Reinforcement Learning With Evolutionary Trajectory Generator: A General Approach for Quadrupedal Locomotion. IEEE Robotics and Automation Letters, 2022, 7, 3085-3092.	3.3	16
120	Real time algorithm for magnet's localization in capsule endoscope. , 2009, , .		15
121	Real-Time Tracking and Navigation for Magnetically Manipulated Untethered Robot. IEEE Access, 2016, 4, 7104-7110.	2.6	15
122	An autonomous elevator button recognition system based on convolutional neural networks. , 2017, , .		15
123	TTRE: A new type of error to evaluate the accuracy of a paired-point rigid registration. , 2017, , .		15
124	Estimation of surgical toolâ€tip tracking error distribution in coordinate reference frame involving pivot calibration uncertainty. Healthcare Technology Letters, 2017, 4, 193-198.	1.9	15
125	Improving Visual Localization Accuracy in Dynamic Environments Based on Dynamic Region Removal. IEEE Transactions on Automation Science and Engineering, 2020, , 1-12.	3.4	15
126	Accuracy assessment of an N-ocular motion capture system for surgical tool tip tracking using pivot calibration. , 2016, , .		14

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127	Free Sensor Array Based Relative Localization System for Wireless Capsule Endoscopy. , 2018, , .		14
128	CAM-FoC: A High Accuracy Lightweight Deep Neural Network for Grip Force Measurement of Elongated Surgical Instrument. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	14
129	Image-Guided Navigation of a Robotic Ultrasound Probe for Autonomous Spinal Sonography Using a Shadow-Aware Dual-Agent Framework. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 130-144.	2.1	14
130	Capsule endoscopy images classification by color texture and support vector machine. , 2010, , .		13
131	Fast Weighted Total Variation Regularization Algorithm for Blur Identification and Image Restoration. IEEE Access, 2016, 4, 6792-6801.	2.6	13
132	Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5230-5243.	5.9	13
133	Improved Multiple Objects Tracking based Autonomous Simultaneous Magnetic Actuation & Localization for WCE. , 2020, , .		13
134	Integrated Design and Decoupled Control of Anchoring and Drug Release for Wireless Capsule Robots. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2897-2907.	3.7	13
135	Autonomous Magnetic Navigation Framework for Active Wireless Capsule Endoscopy Inspired by Conventional Colonoscopy Procedures. IEEE Robotics and Automation Letters, 2022, 7, 1729-1736.	3.3	13
136	Wireless Capsule Endoscopy Images Enhancement using Contrast Driven Forward and Backward Anisotropic Diffusion. , 2007, , .		12
137	An auction-based resource allocation strategy for joint-surveillance using networked multi-robot systems. , 2013, , .		12
138	An improved RRT algorithm incorporating obstacle boundary information. , 2016, , .		12
139	Joint Registration of Multiple Generalized Point Sets. Lecture Notes in Computer Science, 2018, , 169-177.	1.0	12
140	Robust Generalized Point Set Registration using Inhomogeneous Hybrid Mixture Models via Expectation Maximization. , 2019, , .		12
141	Towards External Sensor based Simultaneous Magnetic Actuation and Localization for WCE. , 2019, , .		12
142	Feature-Guided Nonrigid 3-D Point Set Registration Framework for Image-Guided Liver Surgery: From Isotropic Positional Noise to Anisotropic Positional Noise. IEEE Transactions on Automation Science and Engineering, 2021, 18, 471-483.	3.4	12
143	Computer aided detection of bleeding in capsule endoscopy images. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	11
144	Wireless Capsule endoscopy video summary. , 2010, , .		11

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145	A game theoretical bandwidth allocation mechanism for cloud robotics. , 2012, , .		11
146	Robot-assisted occlusion avoidance for surgical instrument optical tracking system. , 2015, , .		11
147	GI bleeding detection in wireless capsule endoscopy images based on pattern recognition and a MapReduce framework. , 2016, , .		11
148	Dynamic Height Balance Control for Bipedal Wheeled Robot Based on ROS-Gazebo. , 2019, , .		11
149	Risk-Aware Path Planning Under Uncertainty in Dynamic Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	2.0	11
150	Kinematic Modeling of Magnetically-Actuated Robotic Catheter in Nonlinearly-Coupled Multi-Field. IEEE Robotics and Automation Letters, 2021, 6, 8189-8196.	3.3	11
151	Reliable Hybrid Mixture Model for Generalized Point Set Registration. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	11
152	A Vision-Based Robot Grasping System. IEEE Sensors Journal, 2022, 22, 9610-9620.	2.4	11
153	A Robot Grasping System With Single-Stage Anchor-Free Deep Grasp Detector. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	11
154	A comparative study of shape features for polyp detection in wireless capsule endoscopy images. , 2009, 2009, 3731-4.		10
155	Polyp detection in wireless capsule endoscopy images using novel color texture features. , 2011, , .		10
156	A low cost Bluetooth powered wearable digital stethoscope for cardiac murmur. , 2016, , .		10
157	A dense semantic mapping system based on CRF-RNN network. , 2017, , .		10
158	Precise motion control of concentric-tube robot based on visual servoing. , 2017, , .		10
159	A Grasp Pose Detection Scheme with an End-to-End CNN Regression Approach. , 2018, , .		10
160	An Accurate Localization Scheme for Mobile Robots Using Optical Flow in Dynamic Environments. , 2018, , .		10
161	Faster R-CNN with Classifier Fusion for Small Fruit Detection. , 2018, , .		10
162	Skeleton-Based Human Action Recognition by Pose Specificity and Weighted Voting. International Journal of Social Robotics, 2019, 11, 219-234.	3.1	10

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163	General first-order target registration error model considering a coordinate reference frame in an image-guided surgical system. Medical and Biological Engineering and Computing, 2020, 58, 2989-3002.	1.6	10
164	Improving Dense Mapping for Mobile Robots in Dynamic Environments Based on Semantic Information. IEEE Sensors Journal, 2021, 21, 11740-11747.	2.4	10
165	Generalized Non-rigid Point Set Registration with Hybrid Mixture Models Considering Anisotropic Positional Uncertainties. Lecture Notes in Computer Science, 2019, , 547-555.	1.0	10
166	Understanding the Mobility Model of Wireless Body Sensor Networks. , 2006, , .		9
167	Investigating Network Optimization Approaches in Wireless Sensor Networks. , 2006, , .		9
168	Robust peak detection of pulse waveform using height ratio. , 2008, 2008, 3856-9.		9
169	Using ensemble classifier for small bowel ulcer detection in wireless capsule endoscopy images. , 2009, , .		9
170	A novel method of 6-DoF electromagnetic navigation system for surgical robot. , 2010, , .		9
171	A novel strategy to label abnormalities for Wireless Capsule Endoscopy frames sequence. , 2011, , .		9
172	A preliminary study on surgical instrument tracking based on multiple modules of monocular pose estimation. , 2014, , .		9
173	The implementation of augmented reality in a robotic teleoperation system. , 2016, , .		9
174	High Accuracy and Efficiency Grasp Pose Detection Scheme with Dense Predictions. , 2020, , .		9
175	Aligning 3D Curve With Surface Using Tangent and Normal Vectors for Computer-Assisted Orthopedic Surgery. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 372-383.	2.1	9
176	Robot Path Planning via Neural-Network-Driven Prediction. IEEE Transactions on Artificial Intelligence, 2022, 3, 451-460.	3.4	9
177	On Reciprocally Rotating Magnetic Actuation of a Robotic Capsule in Unknown Tubular Environments. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 919-927.	2.1	9
178	Efficient Robot Motion Planning Using Bidirectional-Unidirectional RRT Extend Function. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1859-1868.	3.4	9
179	A Modular Lockable Mechanism for Tendon-Driven Robots: Design, Modeling and Characterization. IEEE Robotics and Automation Letters, 2022, 7, 2023-2030.	3.3	9
180	Analysis of the gastrointestinal status from wireless capsule endoscopy images using local color feature. , 2007, , .		8

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181	An experimental system of mobile robot's self-localization based on WSN. , 2009, , .		8
182	A novel RF-based propagation model with tissue absorption for location of the GI tract. , 2010, 2010, 654-7.		8
183	Surgical instrument recognition and calibration for optical tracking system. , 2010, , .		8
184	Designing gestures with semantic meanings for humanoid robot. , 2012, , .		8
185	Removal of non-informative frames for wireless capsule endoscopy video segmentation. , 2012, , .		8
186	Learning to Interrupt: A Hierarchical Deep Reinforcement Learning Framework for Efficient Exploration. , 2018, , .		8
187	Tropistic RRT*: An Efficient Planning Algorithm via Adaptive Restricted Sampling Space. , 2018, , .		8
188	Efficient Mobile Robot Exploration with Gaussian Markov Random Fields in 3D Environments. , 2018, , .		8
189	Design of A Novel Electromagnetic Actuation System for Actuating Magnetic Capsule Robot. , 2019, , .		8
190	Multi-View Global 2D-3D Registration Based on Branch and Bound Algorithm. , 2019, , .		8
191	Robust and Accurate Nonrigid Point Set Registration Algorithm to Accommodate Anisotropic Positional Localization Error Based on Coherent Point Drift. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1939-1955.	3.4	8
192	Unified Intention Inference and Learning for Humanâ€“Robot Cooperative Assembly. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2256-2266.	3.4	8
193	OCR-RCNN: An Accurate and Efficient Framework for Elevator Button Recognition. IEEE Transactions on Industrial Electronics, 2022, 69, 582-591.	5.2	8
194	Search-Based Online Trajectory Planning for Car-like Robots in Highly Dynamic Environments. , 2021, , .		8
195	Adaptive Simultaneous Magnetic Actuation and Localization for WCE in a Tubular Environment. IEEE Transactions on Robotics, 2022, 38, 2812-2826.	7.3	8
196	Wireless Assistive Sensor Networks for the Deaf. , 2006, , .		7
197	An hybrid localization system based on optics and magnetics. , 2010, , .		7
198	Capsule endoscopy video Boundary Detection. , 2011, , .		7

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199	Key-frame selection in WCE video based on shot detection. , 2012, , .		7
200	Automatic lesion segmentation from rice leaf blast field images based on random forest. , 2016, , .		7
201	A hybrid 3DoF pose estimation method based on camera and lidar data. , 2017, , .		7
202	Magnetically Driven Wireless Capsule Robot with Targeting Biopsy Function. , 2019, , .		7
203	Design of A Novel Biopsy Capsule Robot with Anchoring Function for Intestinal Tract. , 2019, , .		7
204	RGB-Thermal Fusion Network for Leakage Detection of Crude Oil Transmission Pipes. , 2019, , .		7
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