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	Anisotropic Generalized Bayesian Coherent Point Drift for Point Set Registration. IEEE Transactions on Automation Science and Engineering, 2023, 20, 495-505.	3.4	3
2	Spatiotemporal Co-Attention Hybrid Neural Network for Pedestrian Localization Based on 6D IMU. IEEE Transactions on Automation Science and Engineering, 2023, 20, 636-648.	3.4	4
3	Motion Planning of Manipulator by Points-Guided Sampling Network. IEEE Transactions on Automation Science and Engineering, 2023, 20, 821-831.	3.4	3
4	Human-Aware Path Planning With Improved Virtual Doppler Method in Highly Dynamic Environments. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1304-1321.	3.4	6
5	Unified Intention Inference and Learning for Human–Robot Cooperative Assembly. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2256-2266.	3.4	8
6	Learning Robot Exploration Strategy With 4D Point-Clouds-Like Information as Observations. IEEE Robotics and Automation Letters, 2022, 7, 1-8.	3.3	4
7	OCR-RCNN: An Accurate and Efficient Framework for Elevator Button Recognition. IEEE Transactions on Industrial Electronics, 2022, 69, 582-591.	5.2	8
8	Conditional Generative Adversarial Networks for Optimal Path Planning. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 662-671.	2.6	17
9	Real-Time Decision Making and Path Planning for Robotic Autonomous Luggage Trolley Collection at Airports. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2174-2183.	5.9	7
10	Attention-Driven Active Sensing With Hybrid Neural Network for Environmental Field Mapping. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2135-2152.	3.4	4
11	Robot Path Planning via Neural-Network-Driven Prediction. IEEE Transactions on Artificial Intelligence, 2022, 3, 451-460.	3.4	9
12	Generative Adversarial Network Based Heuristics for Sampling-Based Path Planning. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 64-74.	8.5	26
13	Deep Neural Network Enhanced Sampling-Based Path Planning in 3D Space. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3434-3443.	3.4	7
14	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
15	Dynamic wheeled motion control of wheel-biped transformable robots. Biomimetic Intelligence and Robotics, 2022, 2, 100027.	1.1	7
16	Efficient Robot Motion Planning Using Bidirectional-Unidirectional RRT Extend Function. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1859-1868.	3.4	9
17	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
18	Joint Rigid Registration of Multiple Generalized Point Sets With Anisotropic Positional Uncertainties in Image-Guided Surgery. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3612-3627.	3.4	3

#	Article	IF	Citations
19	Model-Free and Uncalibrated Eye-in-Hand Visual Servoing Approach for Concentric-Tube Robots. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	5
20	Reinforcement Learning With Evolutionary Trajectory Generator: A General Approach for Quadrupedal Locomotion. IEEE Robotics and Automation Letters, 2022, 7, 3085-3092.	3.3	16
21	A Modular Lockable Mechanism for Tendon-Driven Robots: Design, Modeling and Characterization. IEEE Robotics and Automation Letters, 2022, 7, 2023-2030.	3.3	9
22	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
23	Wearable Surgical Optical Tracking System Based on Multi-Modular Sensor Fusion. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	7
24	Towards Terrain Adaptablity: In Situ Transformation of Wheel-Biped Robots. IEEE Robotics and Automation Letters, 2022, 7, 3819-3826.	3.3	5
25	A Vision-Based Robot Grasping System. IEEE Sensors Journal, 2022, 22, 9610-9620.	2.4	11
26	Generalized Point Set Registration With Fuzzy Correspondences Based on Variational Bayesian Inference. IEEE Transactions on Fuzzy Systems, 2022, 30, 1529-1540.	6.5	7
27	GMR-RRT*: Sampling-Based Path Planning Using Gaussian Mixture Regression. IEEE Transactions on Intelligent Vehicles, 2022, 7, 690-700.	9.4	24
28	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
29	Adaptive Simultaneous Magnetic Actuation and Localization for WCE in a Tubular Environment. IEEE Transactions on Robotics, 2022, 38, 2812-2826.	7.3	8
30	External and Internal Sensor Fusion Based Localization Strategy for 6-DOF Pose Estimation of a Magnetic Capsule Robot. IEEE Robotics and Automation Letters, 2022, 7, 6878-6885.	3.3	6
31	Deep Koopman Operator With Control for Nonlinear Systems. IEEE Robotics and Automation Letters, 2022, 7, 7700-7707.	3.3	17
32	Inertial Odometry Using Hybrid Neural Network With Temporal Attention for Pedestrian Localization. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	7
33	Online State-Time Trajectory Planning Using Timed-ESDF in Highly Dynamic Environments. , 2022, , .		2
34	Generalized 3D Rigid Point Set Registration with Anisotropic Positional Error Based on Bayesian Coherent Point Drift. , 2022, , .		3
35	A2DIO: Attention-Driven Deep Inertial Odometry for Pedestrian Localization based on 6D IMU. , 2022, , .		4
36	Robotic Autonomous Trolley Collection with Progressive Perception and Nonlinear Model Predictive Control. , 2022, , .		4

#	Article	IF	Citations
37	Multiple Consistency Supervision based Semi-supervised OCT Segmentation using Very Limited Annotations. , 2022, , .		1
38	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
39	CEB-Map: Visual Localization Error Prediction for Safe Navigation. IEEE Sensors Journal, 2021, 21, 11769-11780.	2.4	4
40	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
41	Improving Dense Mapping for Mobile Robots in Dynamic Environments Based on Semantic Information. IEEE Sensors Journal, 2021, 21, 11740-11747.	2.4	10
42	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
43	Coarse-to-Fine Visual Object Catching Strategy Applied in Autonomous Airport Baggage Trolley Collection. IEEE Sensors Journal, 2021, 21, 11844-11857.	2.4	4
44	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
45	A Novel Grip Force Cognition Scheme for Robot-Assisted Minimally Invasive Surgery. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 391-402.	2.6	4
46	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
47	An Optically Aided Magnetic Tracking Approach for Magnetically Actuated Capsule Robot. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	19
48	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
49	HRENet: A Hard Region Enhancement Network for Polyp Segmentation. Lecture Notes in Computer Science, 2021, , 559-568.	1.0	17
50	Multipoint Simultaneous Tracking of Wireless Capsule Endoscope Using Magnetic Sensor Array. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	25
51	Deep Learning-Driven Models for Endoscopic Image Analysis. Computational Biology, 2021, , 271-300.	0.1	2
52	An Autonomous Eye-in-Hand Robotic System for Elevator Button Operation Based on Deep Recognition Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	7
53	Pose-Invariant Inertial Odometry for Pedestrian Localization. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	16
54	Attending From Foresight: A Novel Attention Mechanism for Neural Machine Translation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2606-2616.	4.0	5

#	Article	IF	Citations
55	Risk-Aware Path Planning Under Uncertainty in Dynamic Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	2.0	11
56	Hybrid Adaptive Control Strategy for Continuum Surgical Robot Under External Load. IEEE Robotics and Automation Letters, 2021, 6, 1407-1414.	3.3	30
57	A survey of learning†based robot motion planning. IET Cyber-Systems and Robotics, 2021, 3, 302-314.	1.1	22
58	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
59	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
60	Kinematic Constrained Bi-directional RRT with Efficient Branch Pruning for robot path planning. Expert Systems With Applications, 2021, 170, 114541.	4.4	62
61	Tip estimation approach for concentric tube robots using 2D ultrasound images and kinematic model. Medical and Biological Engineering and Computing, 2021, 59, 1461-1473.	1.6	2
62	A survey of the development of biomimetic intelligence and robotics. Biomimetic Intelligence and Robotics, 2021, 1, 100001.	1.1	29
63	A Design Approach of 3D Optimal Mobile Sensor Array for Confidence-box based Tracking of a Magnetic Capsule. , 2021, , .		0
64	Unsupervised Learning based Relative Localization for WCE in a Deformable Tubular Environment. , 2021, , .		0
65	Workspace Analysis of a Dual-arm Mobile Robot System for Coordinated Operation. , 2021, , .		1
66	Sliding-Window Informed RRT*: A Method for Speeding Up the Optimization and Path Smoothing. , 2021, , .		4
67	Kinematic Modeling of Magnetically-Actuated Robotic Catheter in Nonlinearly-Coupled Multi-Field. IEEE Robotics and Automation Letters, 2021, 6, 8189-8196.	3.3	11
68	Generalized Coherent Point Drift With Multi-Variate Gaussian Distribution and Watson Distribution. IEEE Robotics and Automation Letters, 2021, 6, 6749-6756.	3.3	7
69	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
70	Reliable Hybrid Mixture Model for Generalized Point Set Registration. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	11
71	Robustness Improvement of Using Pre-Trained Network in Visual Odometry for On-Road Driving. IEEE Transactions on Vehicular Technology, 2021, 70, 12415-12426.	3.9	4
72	Dynamic tracking for microrobot with active magnetic sensor array. , 2021, , .		3

#	Article	IF	Citations
73	Autonomous Navigation of an Ultrasound Probe Towards Standard Scan Planes with Deep Reinforcement Learning. , 2021, , .		32
74	Reciprocally Rotating Magnetic Actuation and Automatic Trajectory Following for Wireless Capsule Endoscopy. , 2021, , .		0
75	Generalized Point Set Registration with the Kent Distribution. , 2021, , .		2
76	Search-Based Online Trajectory Planning for Car-like Robots in Highly Dynamic Environments. , 2021, , .		8
77	Efficient Heuristic Generation for Robot Path Planning with Recurrent Generative Model. , 2021, , .		4
78	A Searching Space Constrained Partial to Full Registration Approach With Applications in Airport Trolley Deployment Robot. IEEE Sensors Journal, 2021, 21, 11946-11960.	2.4	6
79	Real-Time Multi-Object Magnetic Tracking for Multi-Arm Continuum Robots. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	6
80	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
81	Robust and Accurate Point Set Registration with Generalized Bayesian Coherent Point Drift. , 2021, , .		3
82	Grasp Pose Detection from a Single RGB Image. , 2021, , .		5
83	A Virtual Scanning Framework for Robotic Spinal Sonography with Automatic Real-time Recognition of Standard Views. , 2021, 2021, 4574-4577.		0
84	Development of a Compact Photoacoustic Tomography Imaging System with Dual Single-Element Transducers for Image Enhancement. Current Medical Science, 2021, 41, 1151-1157.	0.7	0
85	Visual Servoing Control of Concentric-tube Robot with Jacobian Matrix Estimation. , 2021, , .		0
86	Motion Planning for Hexapod Robots in Dynamic Rough Terrain Environments. , 2021, , .		0
87	Automatic Recognition of Abdominal Organs in Ultrasound Images based on Deep Neural Networks and K-Nearest-Neighbor Classification. , 2021, , .		5
88	A Nonuniform Sampling Strategy for Path Planning Using Heuristic-based Certificate Set. , 2021, , .		1
89	Robust Semantic Mapping in Challenging Environments. Robotica, 2020, 38, 256-270.	1.3	20
90	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

#	Article	IF	Citations
91	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
92	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
93	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
94	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
95	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
96	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
97	Improved Multiple Objects Tracking based Autonomous Simultaneous Magnetic Actuation & Localization for WCE. , 2020, , .		13
98	High Accuracy and Efficiency Grasp Pose Detection Scheme with Dense Predictions. , 2020, , .		9
99	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
100	Stable Autonomous Robotic Wheelchair Navigation in the Environment With Slope Way. IEEE Transactions on Vehicular Technology, 2020, 69, 10759-10771.	3.9	5
101	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
102	A Novel Approach for Automatic State Detection of A Magnetically Actuated Capsule. , 2020, 2020, 4766-4769.		7
103	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
104	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
105	EB-RRT: Optimal Motion Planning for Mobile Robots. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2063-2073.	3.4	74
106	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
107	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
108	Neural RRT*: Learning-Based Optimal Path Planning. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1748-1758.	3.4	193

#	Article	IF	Citations
109	A Novel Magnetic Tracking Approach for Intrabody Objects. IEEE Sensors Journal, 2020, 20, 4976-4984.	2.4	22
110	Optimal Path Planning Using Generalized Voronoi Graph and Multiple Potential Functions. IEEE Transactions on Industrial Electronics, 2020, 67, 10621-10630.	5.2	55
111	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
112	Diagnose like a Clinician: Third-order Attention Guided Lesion Amplification Network for WCE Image Classification. , 2020, , .		1
113	Eye-In-Hand Uncalibrated Visual Servoing of Concentric Tube Robot. , 2020, , .		3
114	Path Planning for Nonholonomic Multiple Mobile Robot System with Applications to Robotic Autonomous Luggage Trolley Collection at Airports. , 2020, , .		3
115	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
116	Robust Generalized Point Set Registration using Inhomogeneous Hybrid Mixture Models via Expectation Maximization. , 2019, , .		12
117	Safe and Robust Mobile Robot Navigation in Uneven Indoor Environments. Sensors, 2019, 19, 2993.	2.1	20
118	Efficient Autonomous Robotic Exploration With Semantic Road Map in Indoor Environments. IEEE Robotics and Automation Letters, 2019, 4, 2989-2996.	3.3	34
119	A Novel Relative Position Estimation Method for Capsule Robot Moving in Gastrointestinal Tract. Sensors, 2019, 19, 2746.	2.1	24
120	Socially Compliant Path Planning for Robotic Autonomous Luggage Trolley Collection at Airports. Sensors, 2019, 19, 2759.	2.1	22
121	Augmented Bladder Tumor Detection Using Deep Learning. European Urology, 2019, 76, 714-718.	0.9	117
122	Improving monocular visual SLAM in dynamic environments: an optical-flow-based approach. Advanced Robotics, 2019, 33, 576-589.	1.1	49
123	Finding a High-Quality Initial Solution for the RRTs Algorithms in 2D Environments. Robotica, 2019, 37, 1677-1694.	1.3	26
124	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
125	Magnetically Driven Wireless Capsule Robot with Targeting Biopsy Function. , 2019, , .		7
126	Grip Force Perception Based on dAENN for Minimally Invasive Surgery Robot. , 2019, , .		5

#	Article	IF	Citations
127	Design of A Novel Biopsy Capsule Robot with Anchoring Function for Intestinal Tract. , 2019, , .		7
128	A 3DoF Pose Estimation Method for Multi-Trolley from a Single RGB Image. , 2019, , .		0
129	An Improved Simultaneously Magnetic Actuation and Localization Method based on Magnetic Sensor Array. , 2019, , .		3
130	A Monocular Target Pose Estimation System based on An Infrared Camera. , 2019, , .		2
131	Autonomous Removal of Perspective Distortion for Robotic Elevator Button Recognition. , 2019, , .		4
132	Design of a Magnetically-Driven Untethered Micro-Gripper for Drug Delivery. , 2019, , .		1
133	Adaptive Sampling for Human-aware Path Planning in Dynamic Environments. , 2019, , .		2
134	System Design and Balance Control of a Bipedal Leg-wheeled Robot. , 2019, , .		17
135	Towards External Sensor based Simultaneous Magnetic Actuation and Localization for WCE. , 2019, , .		12
136	SARL: Deep Reinforcement Learning based Human-AwareÂNavigation for Mobile Robot in Indoor Environments. , 2019, , .		28
137	3D Reconstruction of Dense Model based on the Sparse Frames using RGBD Camera. , 2019, , .		3
138	Design of A Novel Electromagnetic Actuation System for Actuating Magnetic Capsule Robot. , 2019, , .		8
139	Multi-View Global 2D-3D Registration Based on Branch and Bound Algorithm. , 2019, , .		8
140	RGB-Thermal Fusion Network for Leakage Detection of Crude Oil Transmission Pipes. , 2019, , .		7
141	Dynamic Height Balance Control for Bipedal Wheeled Robot Based on ROS-Gazebo. , 2019, , .		11
142	Tip Estimation Method in Phantoms for Curved Needle Using 2D Transverse Ultrasound Images. Applied Sciences (Switzerland), 2019, 9, 5305.	1.3	3
143	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
144	Skeleton-Based Human Action Recognition by Pose Specificity and Weighted Voting. International Journal of Social Robotics, 2019, 11, 219-234.	3.1	10

#	Article	IF	Citations
145	Risk-DTRRT-Based Optimal Motion Planning Algorithm for Mobile Robots. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1271-1288.	3.4	46
146	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
147	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
148	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
149	Discriminative Joint-Feature Topic Model With Dual Constraints for WCE Classification. IEEE Transactions on Cybernetics, 2018, 48, 2074-2085.	6.2	28
150	A Grasp Pose Detection Scheme with an End-to-End CNN Regression Approach. , 2018, , .		10
151	Autonomous Navigation by Mobile Robots in Human Environments: A Survey. , 2018, , .		35
152	An Accurate Localization Scheme for Mobile Robots Using Optical Flow in Dynamic Environments. , 2018, , .		10
153	Free Sensor Array Based Relative Localization System for Wireless Capsule Endoscopy. , 2018, , .		14
154	A Novel OCR-RCNN for Elevator Button Recognition. , 2018, , .		17
155	A New Solution for the Inverse Kinematics of Concentric-Tube Robots. , 2018, , .		4
156	RRT*-smooth Algorithm Applied to Motion Planning of Concentric Tube Robots. , 2018, , .		3
157	Gait Phase Recognition Based on A Wearable Depth Camera. , 2018, , .		4
158	Learning to Interrupt: A Hierarchical Deep Reinforcement Learning Framework for Efficient Exploration. , 2018, , .		8
159	Design, Simulation and Fabrication of the Leg of Capsule Endoscopy. , 2018, , .		0
160	Tropistic RRT*: An Efficient Planning Algorithm via Adaptive Restricted Sampling Space. , 2018, , .		8
161	Joint Registration of Multiple Generalized Point Sets. Lecture Notes in Computer Science, 2018, , 169-177.	1.0	12
162	Robust Generalized Point Cloud Registration with Expectation Maximization Considering Anisotropic Positional Uncertainties. , 2018, , .		23

#	Article	IF	Citations
163	Deep Reinforcement Learning Supervised Autonomous Exploration in Office Environments. , 2018, , .		58
164	Efficient Mobile Robot Exploration with Gaussian Markov Random Fields in 3D Environments. , 2018, , .		8
165	Faster R-CNN with Classifier Fusion for Small Fruit Detection. , 2018, , .		10
166	Efficient Object Search With Belief Road Map Using Mobile Robot. IEEE Robotics and Automation Letters, 2018, 3, 3081-3088.	3.3	33
167	Motion removal for reliable RGB-D SLAM in dynamic environments. Robotics and Autonomous Systems, 2018, 108, 115-128.	3.0	139
168	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
169	Design and Optimization Strategy of Sensor Array Layout for Magnetic Localization System. IEEE Sensors Journal, 2017, 17, 1849-1857.	2.4	43
170	Deep learning for polyp recognition in wireless capsule endoscopy images. Medical Physics, 2017, 44, 1379-1389.	1.6	150
171	Improving RGB-D SLAM in dynamic environments: A motion removal approach. Robotics and Autonomous Systems, 2017, 89, 110-122.	3.0	265
172	Risk-RRT*: A robot motion planning algorithm for the human robot coexisting environment. , 2017, , .		18
173	A dense semantic mapping system based on CRF-RNN network. , 2017, , .		10
174	General first-order TRE model when using a coordinate reference frame for rigid point-based registration. , 2017, , .		16
175	A study on automated segmentation of blood regions in Wireless Capsule Endoscopy images using fully convolutional networks. , 2017, , .		30
176	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
177	Precise motion control of concentric-tube robot based on visual servoing. , 2017, , .		10
178	Hawkeye: Open source framework for field surveillance. , 2017, , .		6
179	Robust visual inertial monocular using nonlinear optimization. , 2017, , .		0
180	An autonomous elevator button recognition system based on convolutional neural networks. , 2017, , .		15

#	Article	IF	Citations
181	Intraoperative neurological monitoring system for robot assisted minimally invasive spine surgery using electromyography. , 2017, , .		0
182	Towards autonomous exploration with information potential field in 3D environments. , 2017, , .		17
183	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
184	A hybrid 3DoF pose estimation method based on camera and lidar data. , 2017, , .		7
185	TTRE: A new type of error to evaluate the accuracy of a paired-point rigid registration. , 2017, , .		15
186	Heartbeat classification system based on modified stacked denoising autoencoders and neural networks. , 2017, , .		2
187	Autonomous mobile robot navigation in uneven and unstructured indoor environments. , 2017, , .		68
188	Estimation of surgical tool–tip tracking error distribution in coordinate reference frame involving pivot calibration uncertainty. Healthcare Technology Letters, 2017, 4, 193-198.	1.9	15
189	Multiple Objects Positioning and Identification Method Based on Magnetic Localization System. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	52
190	Locating Intra-Body Capsule Object by Three-Magnet Sensing System. IEEE Sensors Journal, 2016, 16, 5167-5176.	2.4	52
191	Accuracy assessment of an N-ocular motion capture system for surgical tool tip tracking using pivot calibration. , 2016, , .		14
192	An improved RRT algorithm incorporating obstacle boundary information. , 2016, , .		12
193	Estimation of target registration error considering small inhomogeneous and anisotropic bias in fiducial localizer error. , 2016, , .		1
194	A novel global and local saliency coding method for polyp recognition in WCE videos. , 2016, , .		2
195	The implementation of augmented reality in a robotic teleoperation system. , 2016, , .		9
196	A human-friendly robot navigation algorithm using the risk-RRT approach. , 2016, , .		17
197	Automatic lesion segmentation from rice leaf blast field images based on random forest. , 2016, , .		7
198	GI bleeding detection in wireless capsule endoscopy images based on pattern recognition and a MapReduce framework. , 2016, , .		11

#	Article	IF	Citations
199	Variant step size RRT: An efficient path planner for UAV in complex environments. , 2016, , .		30
200	Improving object visual tracking performance by scene occluder estimation for video surveillance. , 2016, , .		1
201	Automatic false positive canceling for indoor human detection. , 2016, , .		1
202	A low cost Bluetooth powered wearable digital stethoscope for cardiac murmur. , 2016, , .		10
203	Real-Time Tracking and Navigation for Magnetically Manipulated Untethered Robot. IEEE Access, 2016, 4, 7104-7110.	2.6	15
204	RectMag: An accurate magnetic field model based actuation system. , 2016, , .		0
205	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
206	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
207	Simultaneous Hand–Eye, Tool–Flange, and Robot–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
208	Fast Weighted Total Variation Regularization Algorithm for Blur Identification and Image Restoration. IEEE Access, 2016, 4, 6792-6801.	2.6	13
209	Real-Time Shape Estimation for Wire-Driven Flexible Robots With Multiple Bending Sections Based on Quadratic Bézier Curves. IEEE Sensors Journal, 2015, 15, 6326-6334.	2.4	82
210	Humanoid robot locomotion control by posture recognition for human-robot interaction. , 2015, , .		1
211	Evolving hidden Markov model based human intention learning and inference. , 2015, , .		4
212	Motion removal from moving platforms: An RGB-D data-based motion detection, tracking and segmentation approach. , 2015, , .		2
213	Robot-assisted occlusion avoidance for surgical instrument optical tracking system. , 2015, , .		11
214	Preliminary design towards a magnetic actuated drug delivery system. , 2015, , .		3
215	Comparing two gesture design methods for a humanoid robot: Human motion mapping by an RGB-D sensor and hand-puppeteering. , 2015, , .		1
216	Multiple moving objects tracking for automated visual surveillance. , 2015, , .		4

#	Article	IF	Citations
217	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
218	Vision based autonomous gap-flying-through using the micro unmanned aerial vehicle. , 2015, , .		4
219	Impacts of Robot Head Gaze on Robot-to-Human Handovers. International Journal of Social Robotics, 2015, 7, 783-798.	3.1	42
220	Drilling pattern analysis of femur bone based on inertial measurement unit signal. , 2014, , .		2
221	A magnetic-assistant multi-ocular tracking system. , 2014, , .		0
222	Towards simultaneous coordinate calibrations for cooperative multiple robots. , 2014, , .		32
223	Human robot cooperation based on human intention inference. , 2014, , .		3
224	Person verification based on skeleton biometrics by RGB-D camera. , 2014, , .		0
225	Hierarchical auction-based mechanism for real-time resource retrieval in cloud mobile robotic system. , 2014, , .		18
226	Polyp classification based on Bag of Features and saliency in wireless capsule endoscopy. , 2014, , .		27
227	WiFi signal strength-based robot indoor localization. , 2014, , .		46
228	A denoising and drift-control approach for UAV trajectory tracking. , 2014, , .		2
229	A novel feature for polyp detection in wireless capsule endoscopy images. , 2014, , .		25
230	An Efficient Magnetic Tracking Method Using Uniaxial Sensing Coil. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	50
231	A preliminary study on surgical instrument tracking based on multiple modules of monocular pose estimation. , 2014, , .		9
232	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
233	Simple 3-D Point Reconstruction Methods With Accuracy Prediction for Multiocular System. IEEE/ASME Transactions on Mechatronics, 2013, 18, 366-375.	3.7	18
234	A survey and analysis of task allocation algorithms in multi-robot systems. , 2013, , .		23

#	Article	IF	Citations
235	Recovering Amplitudes and Phases From Saturated Multifrequency Sinusoid Signals. IEEE Sensors Journal, 2013, 13, 4569-4575.	2.4	6
236	An Electromagnetic Localization and Orientation Method Based on Rotating Magnetic Dipole. IEEE Transactions on Magnetics, 2013, 49, 1274-1277.	1.2	59
237	A portable 12-lead ECG acquisition system. , 2013, , .		3
238	A novel method for capsule endoscopy video automatic segmentation. , 2013, , .		3
239	An auction-based resource allocation strategy for joint-surveillance using networked multi-robot systems. , 2013, , .		12
240	Experimental evaluation of the RT-WMP for typical multi-robot systems in real-life indoor environment. , 2013, , .		0
241	Comparison of auction-based methods for task allocation problem in multi-robot systems. , 2013, , .		4
242	Condensation-based multi-person tracking using an online SVM approach. , 2013, , .		4
243	Adaptive visual tracking with reacquisition ability for arbitrary objects. , 2013, , .		1
244	A VARIATIONAL MULTIPHASE LEVEL SET ALGORITHM FOR IMAGE SEGMENTATION BASED ON ACTIVE CONTOUR MODEL. International Journal of Information Acquisition, 2013, 09, 1250004.	0.2	1
245	NONLINEAR CONTROL FOR GAL REGULATORY NETWORK IN S. CEREVISIAE. International Journal of Information Acquisition, 2013, 09, 1350002.	0.2	0
246	ROBOTICS IN NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350044.	0.3	41
247	Endoscopes shape reconstruction based on electromagnetic localization and curve fitting. , 2012, , .		2
248	Study on distance measurement for NAO humanoid robot. , 2012, , .		5
249	An optimal parking space search model based on fuzzy multiple attribute decision making. , 2012, , .		4
250	Study on cooperation between humanoid robot Nao and Barrett WAM. , 2012, , .		6
251	Robot aided object segmentation without prior knowledge. , 2012, , .		3
252	Key-frame selection in WCE video based on shot detection. , 2012, , .		7

#	Article	IF	Citations
253	Colored petri nets to model gene mutation classification. , 2012, , .		3
254	Research on digital pulse oximeter based on optical frequency converter. , 2012, , .		1
255	Designing gestures with semantic meanings for humanoid robot. , 2012, , .		8
256	A partial differential equation algorithm for image enhancement. , 2012, , .		0
257	Towards real-time multi-sensor information retrieval in Cloud Robotic System. , 2012, , .		24
258	Wireless capsule endoscopy video automatic segmentation. , 2012, , .		6
259	Fast monotonic blind deconvolution algorithm for constrained TV based image restoration. , 2012, , .		0
260	Towards cloud robotic system: A case study of online co-localization for fair resource competence. , 2012, , .		21
261	3D reconstruction of GI tract texture surface using Capsule Endoscopy Images. , 2012, , .		5
262	Removal of non-informative frames for wireless capsule endoscopy video segmentation. , 2012, , .		8
263	3-D shape recovery of luminal wall from WCE image. , 2012, , .		1
264	Indoor scene recognition via probabilistic semantic map. , 2012, , .		1
265	Motion blur removal for humanoid robots. , 2012, , .		2
266	A comparative study of endoscopic polyp detection by textural features. , 2012, , .		0
267	A game theoretical bandwidth allocation mechanism for cloud robotics. , 2012, , .		11
268	Robot aided object segmentation based on kinect without prior knowledge. , 2012, , .		0
269	Robotics for Natural Orifice Transluminal Endoscopic Surgery: A Review. Journal of Robotics, 2012, 2012, 1-9.	0.6	20
270	A new stereo matching method with combination of cross-based aggregation and hierarchical belief propagation. , 2012, , .		1

#	Article	IF	Citations
271	Detection of geometric shape for traffic lane and mark. , 2012, , .		5
272	Image segmentation by improved level set evolution algorithm. , 2012, , .		0
273	Design of a real-time ECG filter for resource constraint computer. , 2012, , .		4
274	Automatic polyp detection for wireless capsule endoscopy images. Expert Systems With Applications, 2012, 39, 10952-10958.	4.4	85
275	A Bioinspired Neurodynamics-Based Approach to Tracking Control of Mobile Robots. IEEE Transactions on Industrial Electronics, 2012, 59, 3211-3220.	5.2	139
276	Capsule endoscopy video Boundary Detection. , 2011, , .		7
277	Motion analysis for capsule endoscopy video segmentation. , 2011, , .		5
278	A Novel Marker Tracking Method Based on Extended Kalman Filter for Multi-Camera Optical Tracking Systems. , 2011, , .		5
279	The design of infrared touch screen based on MCU. , 2011, , .		4
280	Improved robust H_∞ performance analysis for networked control systems with two additive time-varying delays. , 2011, , .		0
281	Hybrid magnetic and vision localization technique of capsule endoscope for 3D recovery of pathological tissues. , 2011, , .		6
282	Automatic Extraction of the Lung field from volumetric images for Statistical Anatomical Modeling: A technical approach. , 2011, , .		0
283	A new real-time method for distortion correction in surgical robot positioning systems. , 2011, , .		0
284	3D reconstruction of the WCE images by affine SIFT method. , 2011, , .		4
285	An improved method and algorithm for electromagnetic localization. , 2011, , .		1
286	Polyp detection in wireless capsule endoscopy images using novel color texture features. , 2011, , .		10
287	A novel strategy to label abnormalities for Wireless Capsule Endoscopy frames sequence. , 2011, , .		9
288	Design of medical remote monitoring system base on embedded Linux. , 2011, , .		4

#	Article	IF	Citations
289	Robust H â˜ž Filtering for Uncertain Nonlinear Stochastic Systems with Mode-dependent Time-delays and Markovian Jump Parameters. Circuits, Systems, and Signal Processing, 2011, 30, 303-321.	1.2	5
290	Robust abnormal Wireless Capsule Endoscopy frames detection based on least squared density ratio algorithm. , 2011, , .		0
291	A strategy to abstract WCE video clips based on LDA. , 2011, , .		4
292	A method for 3D-Point Reconstruction in multi-vision based on Perpendicular Foot. , 2011, , .		0
293	WCE video abstracting based on novel color and texture features. , 2011, , .		6
294	A new calibration method used in the infrared ray environment. , 2011, , .		1
295	INVESTIGATION OF THE ESSENTIALS FOR INTEGRATING OFF-THE-SHELF INDUSTRIAL ROBOTICS IN PRECISE COMPUTER-ASSISTED SURGERY. Journal of Mechanics in Medicine and Biology, 2011, 11, 1113-1123.	0.3	6
296	Comparison of several image features for WCE video abstract. , 2011, , .		3
297	Comparison of several image features for WCE video abstract. , 2011, , .		0
298	A New Tracking System for Three Magnetic Objectives. IEEE Transactions on Magnetics, 2010, 46, 4023-4029.	1.2	87
299	A novel method of 6-DoF electromagnetic navigation system for surgical robot. , 2010, , .		9
300	Detection of lymphangiectasia disease from wireless capsule endoscopy images with adaptive threshold. , 2010, , .		3
301	Design of a data acquisition system on magnetic signal for magnetic localization and orientation system. , 2010, , .		2
302	A pulse wave filter method based on wavelet transform soft-threshold and adaptive algorithm. , 2010, , .		2
303	Remote life monitoring system base on Internet of Things. , 2010, , .		0
304	A new camera calibration method for multi-camera localization. , 2010, , .		3
305	Tumor CE image classification using SVM-based feature selection. , 2010, , .		1
306	Variation of exterior telemetry links of capsule antenna ingested in human body. , 2010, , .		3

#	Article	IF	Citations
307	Effects of Dielectric Values of Human Body on Radiation Characteristics of Ingestible Wireless Device Following 1200 MHz. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
308	A method for recognizing noises in pulse waves. , 2010, , .		1
309	An algorithm of premature contraction detection based on wavelet method. , 2010, , .		2
310	Method of edge energy template for detection of ultrasonic based fatty liver. , 2010, , .		2
311	An hybrid localization system based on optics and magnetics. , 2010, , .		7
312	Capsule endoscopy images classification by color texture and support vector machine. , 2010, , .		13
313	Novel detection strategy for abnormalities in WCE video clips. , 2010, 2010, 4084-7.		1
314	An abnormality based WCE video segmentation strategy. , 2010, , .		5
315	WCE video clips segmentation based on abnormality. , 2010, , .		4
316	A new ECG-based Automated External Defibrillator system. , 2010, , .		1
317	3D reconstruction of wireless capsule endoscopy images. , 2010, 2010, 5149-52.		6
318	A novel wireless capsule endoscope with JPEG compression engine. , 2010, , .		16
319	Bleeding detection in wireless capsule endoscopy images by support vector classifier. , 2010, , .		28
320	Wireless Capsule endoscopy video summary. , 2010, , .		11
321	A novel RF-based propagation model with tissue absorption for location of the GI tract. , 2010, 2010, 654-7.		8
322	Surgical instrument recognition and calibration for optical tracking system. , 2010, , .		8
323	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
324	An Empirical Study of DV-Hop Localization Algorithm in Random Sensor Networks. , 2009, , .		4

#	Article	IF	Citations
325	Image denosing by curvature strength diffusion. , 2009, , .		3
326	A new calibration method for magnetic sensor array for tracking capsule endoscope. , 2009, , .		19
327	The study and improvement of memory management based on SOS. , 2009, , .		1
328	A novel X-corner detector based on video. , 2009, , .		0
329	H<inf>&#x221E;</inf> exponential filtering for uncertain Markovian jump stochastic systems with mode-dependent time delays and nonlinearities. , 2009, , .		2
330	Dual-modal indoor mobile localization system based on prediction algorithm. , 2009, , .		4
331	A delay-range-dependent approach to robust H&#x221E; control for uncertain linear systems with time-varying delays. , 2009, , .		0
332	Design of WSN node based on CC2431 applicable to lunar surface environment. , 2009, , .		3
333	A beacon selected localization algorithm for Ad-Hoc networks of sensors. , 2009, , .		1
334	Two-magnet-based 6D-localization and orientation for wireless capsule endoscope. , 2009, , .		21
335	ROBUST EXPONENTIAL STABILITY OF STOCHASTIC TIME-DELAY SYSTEMS WITH UNCERTAINTIES AND NONLINEAR PERTURBATIONS. International Journal of Information Acquisition, 2009, 06, 61-71.	0.2	1
336	INVESTIGATION OF NAVIGATION AND ROBOTIC SYSTEM FOR COMPUTER ASSISTED ORTHOPEDIC SURGERY: STATE-OF-ART AND PRELIMINARY RESULTS. International Journal of Information Acquisition, 2009, 06, 171-179.	0.2	4
337	COMPACT REPRESENTATION AND PANORAMIC REPRESENTATION FOR CAPSULE ENDOSCOPE IMAGES. International Journal of Information Acquisition, 2009, 06, 257-268.	0.2	5
338	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
339	Power Adaptive Localization Algorithm for Wireless Sensor Networks Using Particle Filter. IEEE Transactions on Vehicular Technology, 2009, 58, 2498-2508.	3.9	66
340	Conflict and coalition models in inhomogeneous power allocation for wireless sensor networks. , 2009, , .		4
341	Intestinal polyp recognition in capsule endoscopy images using color and shape features. , 2009, , .		17
342	In situ analysis of capsule endoscopy images and preliminary results. , 2009, , .		3

#	Article	IF	Citations
343	Capsule endoscope localization based on computer vision technique. , 2009, 2009, 3711-4.		25
344	Using ensemble classifier for small bowel ulcer detection in wireless capsule endoscopy images. , 2009, , .		9
345	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
346	A technical review on the orthopedic compliant robotic arms. , 2009, , .		1
347	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
348	A comparative study of shape features for polyp detection in wireless capsule endoscopy images. , 2009, 2009, 3731-4.		10
349	Motion constraints simulation based on MATLAB and haptic interface. , 2009, , .		0
350	Effects of dielectric parameters of human body on specific absorption rate for ingestible wireless device at operating frequency of 430 MHz. , 2009, , .		0
351	Node localization during power adjustment in wireless sensor networks. , 2009, , .		0
352	Accurate localization in combination with wireless sensor networks and laser localization. , 2009, , .		6
353	An experimental system of mobile robot's self-localization based on WSN. , 2009, , .		8
354	Detection of weak magnetic signal for magnetic localization and orientation in capsule endoscope. , 2009, , .		5
355	A novel FPGA-based wireless vision sensor node. , 2009, , .		28
356	Small bowel tumor detection for wireless capsule endoscopy images using textural features and support vector machine. , 2009, , .		19
357	Detecting ventricular fibrillation by fast algorithm of dynamic sample entropy. , 2009, , .		19
358	Real time algorithm for magnet's localization in capsule endoscope. , 2009, , .		15
359	Error analyzing for RSSI-based localization in wireless sensor networks. , 2008, , .		3
360	Robust peak detection of pulse waveform using height ratio. , 2008, 2008, 3856-9.		9

#	Article	IF	Citations
361	An embedded structure of model reference adaptive system. , 2008, , .		4
362	Influence of animal body on ingested wireless device before and after death. , 2008, , .		2
363	A wireless actuation system for micro-robot moving inside pipeline. , 2008, , .		3
364	An improved magnetic localization and orientation algorithm for wireless capsule endoscope. , 2008, 2008, 2055-8.		23
365	Dynamic event data aggregation in wireless sensor networks. , 2008, , .		3
366	Ulcer recognition in capsule endoscopy images by texture features. , 2008, , .		4
367	APPLICABILITY OF HOMOGENEOUS HUMAN TRUNK PHANTOM IN ESTIMATING THE RADIATION CHARACTERISTICS OF BODY-WORN DEVICES. International Journal of Information Acquisition, 2008, 05, 65-82.	0.2	1
368	Computational aspects in actuation and guidance mechanism for wireless active capsule endoscope. , 2008, , .		1
369	Computer aided detection of bleeding in capsule endoscopy images. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	11
370	Radiation characteristics of ingested wireless device at frequencies from 430 MHz to 3 GHz*. , 2008, 2008, 1250-3.		3
371	Robust stabilization and H$_\infty$ control for networked control systems with data packet dropout and delays. , 2008, , .		3
372	The study of software and hardware platform for the node of WSN. , 2008, , .		1
373	Quantitative Analyses of Pulse Images in Traditional Chinese Medicine. Medical Acupuncture, 2008, 20, 175-189.	0.3	32
374	A fast algorithm for field computation in magnetic guidance. , 2008, , .		2
375	Improving free space trajectory tracking in wave-variable-based teleoperation. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	0
376	Modeling and robust stability criterion of uncertain networked control systems with time-varying delays. , 2008, , .		5
377	Kalman Filter Enhanced Tracking Controller for Mobile Robots with Bounded Accelerations. , 2007, , .		0
378	Time-to-contact Computation from Monocular Image Sequences. , 2007, , .		0

#	Article	IF	Citations
379	Self-tuning Regulator for Order-varying Systems Based on Particle Swarm Optimization. , 2007, , .		1
380	DESIGN AND IMPLEMENTATION OF WIRELESS SENSOR NETWORK FOR ROBOT NAVIGATION. International Journal of Information Acquisition, 2007, 04, 77-89.	0.2	5
381	A mathematical model with degree of risk for Salmonella infections. , 2007, , .		1
382	GENETIC ALGORITHM BASED VISUAL LOCALIZATION FOR A ROBOT PET IN HOME HEALTHCARE SYSTEM. International Journal of Information Acquisition, 2007, 04, 141-160.	0.2	1
383	A NOVEL ENHANCEMENT METHOD FOR CAPSULE ENDOSCOPY IMAGES. International Journal of Information Acquisition, 2007, 04, 117-126.	0.2	2
384	An Index of Depth of Anaesthesia Based on Wavelet Analysis of Middle Latency Auditory Evoked Potentials. , 2007, , .		1
385	Effect of Subject Size on Electromagnetic Radiation from Source in Human Body Following 2450MHz Radio Frequency Exposure. , 2007, , .		5
386	Accurately Monitoring the Depth of Anaesthesia Using an Intelligent Method. , 2007, , .		1
387	Guided Magnetic Actuator for Active Capsule Endoscope. , 2007, , .		6
388	Indoor Patient Position Estimation Using Particle Filtering and Wireless Body Area Networks. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2277-80.	0.5	4
389	DISEASES DETECTION IN WIRELESS CAPSULE ENDOSCOPY IMAGES WITH COLOR FEATURE. International Journal of Information Acquisition, 2007, 04, 251-259.	0.2	3
390	Magnetic actuation and guidance mechanism for active capsule endoscope. , 2007, , .		0
391	Adaptive Diffusion for Capsule Endoscopy Images. , 2007, , .		0
392	Control Strategy of Active Actuation System of Wireless Capsule Endoscope. , 2007, , .		4
393	The Software Implementation of Magnetic Localization and Orientation Detection for Capsule Endoscope. , 2007, , .		0
394	Parameter estimation using biologically inspired methods. , 2007, , .		0
395	Design of a PDA-based telerobotic system. , 2007, , .		0
396	Analysis of the gastrointestinal status from wireless capsule endoscopy images using local color feature. , 2007, , .		8

#	Article	IF	Citations
397	Monitoring Depth of Anaesthesia Using Auditory Evoked Potential and Bispectrum. , 2007, , .		0
398	A bio-inspired robotic sound localization method. , 2007, , .		3
399	Wireless Capsule Endoscopy Images Enhancement using Contrast Driven Forward and Backward Anisotropic Diffusion. , 2007, , .		12
400	Localization for Legged Robot with Single Low-Resolution Camera using Genetic Algorithm. , 2007, , .		3
401	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
402	Biologically Inspired Approaches for Wireless Sensor Networks. , 2006, , .		27
403	Understanding the Mobility Model of Wireless Body Sensor Networks. , 2006, , .		9
404	A Knowledge Based GA for Path Planning of Multiple Mobile Robots in Dynamic Environments. , 2006, , .		24
405	An Inchworm-like Locomotion Mechanism Based on Magnetic Actuator for Active Capsule Endoscope. , 2006, , .		17
406	Rate Control to Reduce Bioeffects in Wireless Biomedical Sensor Networks. , 2006, , .		6
407	Rate Control to Reduce Bioeffects in Wireless Biomedical Sensor Networks. , 2006, , .		16
408	Investigating Network Optimization Approaches in Wireless Sensor Networks. , 2006, , .		9
409	Wireless Assistive Sensor Networks for the Deaf. , 2006, , .		7
410	MODELING THE GROUP MOBILITY PATTERN IN WIRELESS BODY SENSOR NETWORKS. International Journal of Information Acquisition, 2006, 03, 259-270.	0.2	1
411	Neurodynamics based Complete Coverage Navigation with Real-time Map Building in Unknown Environments. , 2006, , .		3
412	Using Game Approach to Control Bioeffects for Wireless Body Sensor Networks. , 2006, , .		1
413	Wireless Capsule Endoscopy Images Enhancement by Tensor Based Diffusion. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
414	EFFICIENT MAGNETIC LOCALIZATION AND ORIENTATION TECHNIQUE FOR CAPSULE ENDOSCOPY. International Journal of Information Acquisition, 2005, 02, 23-36.	0.2	126

#	Article	IF	Citations
415	GA BASED SENSOR PLACEMENT AND CONTROL DESIGN FOR REACTIVE NAVIGATION OF MOBILE ROBOTS. International Journal of Information Acquisition, 2005, 02, 77-91.	0.2	3
416	PSYCHOPHYSICS, SOFT-HAPTICS AND INFORMATION ACQUISITION FOR INTERNET-BASED ROBOTIC TELEOPERATION. International Journal of Information Acquisition, 2004, 01, 191-200.	0.2	6
417	Data Communications for Internet Robots. Autonomous Robots, 2003, 15, 213-223.	3.2	27
418	Internet roundtrip delay prediction using the maximum entropy principle. Journal of Communications and Networks, 2003, 5, 65-72.	1.8	3
419	Wireless robotic capsule endoscopy: state-of-the-art and challenges. , 0, , .		65