

# Jun-Zhi Yu

## List of Publications by Year in descending order

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324  
papers

6,901  
citations

53794

45  
h-index

95266

68  
g-index

330  
all docs

330  
docs citations

330  
times ranked

4008  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Unified Task Assignment for Underwater Data Collection With Multi-AUV System: A Reinforced Self-Organizing Mapping Approach. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1833-1846.	11.3	4
2	Adaptive Relay Selection Strategy in Underwater Acoustic Cooperative Networks: A Hierarchical Adversarial Bandit Learning Approach. IEEE Transactions on Mobile Computing, 2023, 22, 1938-1949.	5.8	12
3	Barrier-Based Adaptive Line-of-Sight 3-D Path-Following System for a Multijoint Robotic Fish With Sideslip Compensation. IEEE Transactions on Cybernetics, 2023, 53, 4204-4217.	9.5	13
4	Decoupled Metric Network for Single-Stage Few-Shot Object Detection. IEEE Transactions on Cybernetics, 2023, 53, 514-525.	9.5	16
5	Hierarchical Estimation-Based LiDAR Odometry With Scan-to-Map Matching and Fixed-Lag Smoothing. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1607-1623.	12.7	5
6	Locomotion Optimization of a Tendon-Driven Robotic Fish With Variable Passive Tail Fin. IEEE Transactions on Industrial Electronics, 2023, 70, 4983-4992.	7.9	6
7	A Two-Stream CNN With Simultaneous Detection and Segmentation for Robotic Grasping. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1167-1181.	9.3	11
8	Gliding Motion Optimization for a Biomimetic Gliding Robotic Fish. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1629-1639.	5.8	3
9	Designing Zero-Gradient-Sum Protocols for Finite-Time Distributed Optimization Problem. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4569-4577.	9.3	9
10	A Switched Integral-Based Event-Triggered Control of Uncertain Nonlinear Time-Delay System With Actuator Saturation. IEEE Transactions on Cybernetics, 2022, 52, 11335-11347.	9.5	20
11	Robot Navigation Based on Situational Awareness. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 869-881.	3.8	1
12	Separate Control Strategy for a Biomimetic Gliding Robotic Fish. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2535-2544.	5.8	3
13	A Survey of Underwater Multi-Robot Systems. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1-18.	13.1	50
14	Toward a Novel Robotic Manta With Unique Pectoral Fins. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1663-1673.	9.3	18
15	Development and Control of a Bioinspired Robotic Remora for Hitchhiking. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2852-2862.	5.8	10
16	An advanced form-finding of tensegrity structures aided with noise-tolerant zeroing neural network. Neural Computing and Applications, 2022, 34, 6053-6066.	5.6	5
17	Development of a High-Speed Swimming Robot With the Capability of Fish-Like Leaping. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3579-3589.	5.8	19
18	Performance Improvement of a High-Speed Swimming Robot for Fish-Like Leaping. IEEE Robotics and Automation Letters, 2022, 7, 1936-1943.	5.1	8

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19	Real-Time Digital Video Stabilization of Bioinspired Robotic Fish Using Estimation-and-Prediction Framework. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4281-4292.	5.8	3
20	Design and Optimization of an Untethered High-Performance Robotic Tuna. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4132-4142.	5.8	16
21	Dynamic Modeling and Hybrid Fireworks Algorithm-Based Path Planning of an Amphibious Robot. Research on World Agricultural Economy, 2022, 02, .	1.3	9
22	A Hierarchical Stabilization Control Method for a Three-Axis Gimbal Based on Sea-Sky-Line Detection. Sensors, 2022, 22, 2587.	3.8	5
23	Dynamic Rigid Bodies Mining and Motion Estimation Based on Monocular Camera. IEEE Transactions on Cybernetics, 2022, PP, 1-12.	9.5	0
24	A Tight Filtering and Smoothing Fusion Method With Feature Tracking for LiDAR Odometry. IEEE Sensors Journal, 2022, 22, 13622-13631.	4.7	0
25	A novel robotic visual perception framework for underwater operation. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 1602-1619.	2.6	3
26	A Hierarchical LiDAR Odometry via Maximum Likelihood Estimation With Tightly Associated Distributions. IEEE Transactions on Vehicular Technology, 2022, 71, 10254-10268.	6.3	1
27	An SNN-CPG Hybrid Locomotion Control for Biomimetic Robotic Fish. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, .	3.4	3
28	A GNN for repetitive motion generation of four-wheel omnidirectional mobile manipulator with nonconvex bound constraints. Information Sciences, 2022, 607, 537-552.	6.9	8
29	PLJ-SLAM: Monocular Visual SLAM With Points, Lines, and Junctions of Coplanar Lines. IEEE Sensors Journal, 2022, 22, 15465-15476.	4.7	6
30	Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4670-4680.	9.3	23
31	Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4782-4792.	9.3	5
32	IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6358-6368.	9.3	32
33	Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5466-5477.	9.3	21
34	Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6523-6534.	9.3	28
35	Joint Anchor-Feature Refinement for Real-Time Accurate Object Detection in Images and Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 594-607.	8.3	36
36	A soft manipulator for efficient delicate grasping in shallow water: Modeling, control, and real-world experiments. International Journal of Robotics Research, 2021, 40, 449-469.	8.5	118

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37	A Visual Leader-Following Approach With a T-D-R Framework for Quadraped Robots. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2342-2354.	9.3	6
38	SVD based scale transform invariant observable degree for LTI system. Science China Information Sciences, 2021, 64, 1.	4.3	3
39	A Novel Sparse Geometric 3-D LiDAR Odometry Approach. IEEE Systems Journal, 2021, 15, 1390-1400.	4.6	7
40	3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2904-2915.	9.3	21
41	Joint Anchor-Feature Refinement for Real-Time Accurate Object Detection in Images and Videos. , 2021, , 89-124.		1
42	A Multi-Modal Edge Consistency Metric Based on Regression Robustness of Truncated SVD. IEEE Signal Processing Letters, 2021, 28, 1065-1069.	3.6	0
43	A robotic grasping approach with elliptical cone-based potential fields under disturbed scenes. International Journal of Advanced Robotic Systems, 2021, 18, 172988142098573.	2.1	2
44	An Underwater Micro Cable-Driven Pan-Tilt Binocular Vision System With Spherical Refraction Calibration. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	10
45	Noise-tolerant neural algorithm for online solving Yang-Baxter-type matrix equation in the presence of noises: A control-based method. Neurocomputing, 2021, 424, 84-96.	5.9	7
46	Visual-Gyroscope-Wheel Odometry With Ground Plane Constraint for Indoor Robots in Dynamic Environment. , 2021, 5, 1-4.		9
47	A Novel Camera Calibration Pattern Robust to Incomplete Pattern Projection. IEEE Sensors Journal, 2021, 21, 10051-10060.	4.7	14
48	3D path-following control of robotic penguin: an ETFLMPC approach. Nonlinear Dynamics, 2021, 104, 1415-1427.	5.2	2
49	Real-Time Path Planning and Following of a Gliding Robotic Dolphin Within a Hierarchical Framework. IEEE Transactions on Vehicular Technology, 2021, 70, 3243-3255.	6.3	17
50	A Novel 3D LiDAR SLAM Based on Directed Geometry Point and Sparse Frame. IEEE Robotics and Automation Letters, 2021, 6, 374-381.	5.1	17
51	Find Outliers of Image Edge Consistency by Weighted Local Linear Regression with Equality Constraints. Sensors, 2021, 21, 2563.	3.8	2
52	Design and analysis of shoulder joint exoskeleton rehabilitation mechanism based on gear and rack transmission. AIP Advances, 2021, 11, .	1.3	7
53	Integral-based event-triggered fault estimation and impulsive fault-tolerant control for networked control systems applied to underwater vehicles. Neurocomputing, 2021, 442, 36-47.	5.9	24
54	A Fireworks Algorithm Based Path Planning Method for Amphibious Robot. , 2021, , .		4



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73	Marine Autonomous Navigation for Biomimetic Underwater Robots Based on Deep Stereo Attention Network. , 2021, , .		0
74	An Open-Source, Fiducial-Based, Underwater Stereo Visual-Inertial Localization Method with Refraction Correction. , 2021, , .		5
75	Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2327-2337.	9.3	17
76	Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 899-910.	9.3	11
77	Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 376-384.	9.3	40
78	Average Quasi-Consensus Algorithm for Distributed Constrained Optimization: Impulsive Communication Framework. IEEE Transactions on Cybernetics, 2020, 50, 351-360.	9.5	28
79	Temporally Identity-Aware SSD With Attentional LSTM. IEEE Transactions on Cybernetics, 2020, 50, 2674-2686.	9.5	44
80	Gliding Motion Regulation of a Robotic Dolphin Based on a Controllable Fluke. IEEE Transactions on Industrial Electronics, 2020, 67, 2945-2953.	7.9	19
81	A NSGA-II-Based Calibration Algorithm for Underwater Binocular Vision Measurement System. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 794-803.	4.7	29
82	A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2445-2455.	9.3	12
83	Underwater Bioinspired Propulsion: From Inspection to Manipulation. IEEE Transactions on Industrial Electronics, 2020, 67, 7629-7638.	7.9	48
84	Bioinspired Fish Body Wave Model Considering Linear Density. Research on Intelligent Manufacturing, 2020, , 25-45.	0.3	0
85	Implementing Flexible and Fast Turning Maneuvers of Multijoint Robotic Fish. Research on Intelligent Manufacturing, 2020, , 47-69.	0.3	36
86	3D Maneuvering Control of a Robotic Fish. Research on Intelligent Manufacturing, 2020, , 101-121.	0.3	0
87	Control of Yaw and Pitch Maneuvers of a Multilink Dolphin Robot. Research on Intelligent Manufacturing, 2020, , 123-148.	0.3	2
88	Leaping Control of Self-propelled Robotic Dolphin. Research on Intelligent Manufacturing, 2020, , 149-172.	0.3	2
89	A Robust Visual Person-Following Approach for Mobile Robots in Disturbing Environments. IEEE Systems Journal, 2020, 14, 2965-2968.	4.6	14
90	Design of a Miniature Underwater Angle-of-Attack Sensor and Its Application to a Self-Propelled Robotic Fish. IEEE Journal of Oceanic Engineering, 2020, 45, 1295-1307.	3.8	4

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91	Nonlinear model predictive position control for a tail-actuated robotic fish. <i>Nonlinear Dynamics</i> , 2020, 101, 2235-2247.	5.2	12
92	An angle-changeable tracked robot with human-robot interaction in unstructured environments. <i>Assembly Automation</i> , 2020, 40, 565-575.	1.7	12
93	A modified YOLOv3 detection method for vision-based water surface garbage capture robot. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142093271.	2.1	45
94	Design and Analysis of a Flexible, Elastic, and Rope-Driven Parallel Mechanism for Wrist Rehabilitation. <i>Applied Bionics and Biomechanics</i> , 2020, 2020, 1-13.	1.1	4
95	A New Projected Active Set Conjugate Gradient Approach for Taylor-Type Model Predictive Control: Application to Lower Limb Rehabilitation Robots With Passive and Active Rehabilitation. <i>Frontiers in Neurobotics</i> , 2020, 14, 559048.	2.8	6
96	A Novel Visual Sensor Stabilization Platform for Robotic Sharks Based on Improved LADRC and Digital Image Algorithm. <i>Sensors</i> , 2020, 20, 4060.	3.8	6
97	Controlling the depth of a gliding robotic dolphin using dual motion control modes. <i>Science China Information Sciences</i> , 2020, 63, 1.	4.3	3
98	Path-Following Control of an Amphibious Robotic Fish Using Fuzzy-Linear Model Predictive Control Approach. , 2020, , .		5
99	Design of vortex finder structure for decreasing the pressure drop of a cyclone separator. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 743-754.	2.7	14
100	Reaction-Wheel-Based Roll Stabilization for a Robotic Fish Using Neural Network Sliding Mode Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1904-1911.	5.8	23
101	Design and Analysis of a Wearable Upper Limb Rehabilitation Robot with Characteristics of Tension Mechanism. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2101.	2.5	27
102	A real-time semantic visual SLAM approach with points and objects. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142090544.	2.1	12
103	Hydrodynamic Analysis and Verification of an Innovative Whale Shark-like Underwater Glider. <i>Journal of Bionic Engineering</i> , 2020, 17, 123-133.	5.0	15
104	Boosting dark channel dehazing via weighted local constant assumption. <i>Signal Processing</i> , 2020, 171, 107453.	3.7	17
105	A Novel Vision-Based Grasping Method Under Occlusion for Manipulating Robotic System. <i>IEEE Sensors Journal</i> , 2020, 20, 10996-11006.	4.7	14
106	Development of a Whale-Shark-Inspired Gliding Robotic Fish With High Maneuverability. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2824-2834.	5.8	28
107	Trajectory tracking control of a bionic robotic fish based on iterative learning. <i>Science China Information Sciences</i> , 2020, 63, 1.	4.3	153
108	Ground Simulation Tests in Two-Dimensional Dynamic Acceleration Environment. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 910.	2.5	2

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109	ALRe: Outlier Detection for Guided Refinement. Lecture Notes in Computer Science, 2020, , 788-802.	1.3	1
110	A Self-identifying Checkerboard-like Pattern for Camera Calibration. , 2020, , .		3
111	Three-Dimensional Path Following Control of an Underactuated Robotic Dolphin Using Deep Reinforcement Learning. , 2020, , .		7
112	Line-of-Sight Strategy-Based Path-Following System for a Multi-Joint Robotic Fish. , 2020, , .		0
113	A Collision-Free Person-Following Approach Based on Path Planning. , 2020, , .		5
114	Design of Cascade Control Framework for ROV Control and Simulation. , 2020, , .		0
115	Visual Pencil: Design of Portable Human-Computer Interaction Based on 2D Visual Tracking. , 2020, , .		0
116	A Modified Line-of-Sight Method for Path Tracking Applied to Robotic Fish. , 2020, , .		2
117	Comparative Simulation of Mobile Underwater Acoustic Communication Network Based on OPNET. , 2020, , .		4
118	A Bionic Robotic Fish Detection Method by Using YOLOv3 Algorithm. , 2020, , .		2
119	Design and attitude control of a novel robotic jellyfish capable of 3D motion. Science China Information Sciences, 2019, 62, 1.	4.3	19
120	Development and path planning of a novel unmanned surface vehicle system and its application to exploitation of Qarhan Salt Lake. Science China Information Sciences, 2019, 62, 1.	4.3	9
121	Distributed Energy Management Strategy for Reaching Cost-Driven Optimal Operation Integrated With Wind Forecasting in Multimicrogrids System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1643-1651.	9.3	27
122	Design and Analysis of a Chinese Medicine Based Humanoid Robotic Arm Massage System. Applied Sciences (Switzerland), 2019, 9, 4294.	2.5	9
123	FnmOS-ELM: A Flexible Neural Network Mixed Online Sequential Elm. Applied Sciences (Switzerland), 2019, 9, 3772.	2.5	0
124	Dual Refinement Network for Single-Shot Object Detection. , 2019, , .		3
125	Vision-Based Target-Following Guider for Mobile Robot. IEEE Transactions on Industrial Electronics, 2019, 66, 9360-9371.	7.9	40
126	Control and Optimization of a Bionic Robotic Fish Through a Combination of CPG model and PSO. Neurocomputing, 2019, 337, 144-152.	5.9	45



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127	Bottom-level motion control for robotic fish to swim in groups: modeling and experiments. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 046001.	2.9	16
128	Motion Control Strategies for a Repetitive Leaping Robotic Dolphin. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 913-923.	5.8	34
129	Towards Real-Time Advancement of Underwater Visual Quality With GAN. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 9350-9359.	7.9	85
130	2-DOF Camera Stabilization Platform for Robotic Fish Based on Active Disturbance Rejection Control. , 2019, , .		2
131	Effect of Compliant Passive Joint on Swimming Performance for a Multi-Joint Robotic Fish. , 2019, , .		1
132	A Vision-Based Path Planning and Following System for a Miniature Robotic Fish. , 2019, , .		2
133	Motion Optimization for a Robotic Fish Based on Adversarial Structured Control. , 2019, , .		1
134	Design and Yaw Control of a Two-Motor-Actuated Biomimetic Robotic Fish. , 2019, , .		8
135	3-D Motion Analysis and Implementation of a Developed Gliding Robotic Dolphin. , 2019, , .		4
136	A Grasping CNN with Image Segmentation for Mobile Manipulating Robot. , 2019, , .		5
137	Locomotion Control of Robotic Fish with a Hierarchical Framework Combining Spiking Neural Networks and CPGs. , 2019, , .		4
138	Mechatronic Design of a Novel Robotic Manta with Pectoral Fins. , 2019, , .		4
139	An Unsupervised Grasp Detection for Water-surface Object Collection. , 2019, , .		1
140	Towards a Gliding Robotic Dolphin: Design, Modeling, and Experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 260-270.	5.8	52
141	A Paradigm for Path Following Control of a Ribbon-Fin Propelled Biomimetic Underwater Vehicle. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 482-493.	9.3	56
142	A Continuous-Time Algorithm for Distributed Optimization Based on Multiagent Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 2700-2709.	9.3	49
143	Distributed Power Management for Dynamic Economic Dispatch in the Multimicrogrids Environment. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1651-1658.	5.2	45
144	Sliding mode fuzzy control-based path-following control for a dolphin robot. <i>Science China Information Sciences</i> , 2018, 61, 1.	4.3	20

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145	Energy Analysis of a CPG-controlled Miniature Robotic Fish. Journal of Bionic Engineering, 2018, 15, 260-269.	5.0	23
146	Second-Order Continuous-Time Algorithms for Economic Power Dispatch in Smart Grids. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1482-1492.	9.3	115
147	Depth Control of a Bioinspired Robotic Dolphin Based on Sliding-Mode Fuzzy Control Method. IEEE Transactions on Industrial Electronics, 2018, 65, 2429-2438.	7.9	71
148	TSSD: Temporal Single-Shot Detector Based on Attention and LSTM. , 2018, , .		7
149	Development of a Tetris Playing Robot Controlled by KNR. , 2018, , .		0
150	Fault-Tolerant Speed Control of a Biomimetic Multijoint Robotic Fish. , 2018, , .		1
151	Spiraling Motion of a Gliding Robotic Dolphin Based on the 3-D Dynamic Model. , 2018, , .		11
152	Fault-Tolerant Control of a CPG-Governed Robotic Fish. Engineering, 2018, 4, 861-868.	6.7	16
153	Editorial for Special Issue on Intelligent Control and Computing in Advanced Robotics. International Journal of Automation and Computing, 2018, 15, 513-514.	4.5	0
154	Path Planning of Industrial Robot Based on Improved RRT Algorithm in Complex Environments. IEEE Access, 2018, 6, 53296-53306.	4.2	87
155	Real-time segmentation of various insulators using generative adversarial networks. IET Computer Vision, 2018, 12, 596-602.	2.0	25
156	Motion Control and Motion Coordination of Bionic Robotic Fish: A Review. Journal of Bionic Engineering, 2018, 15, 579-598.	5.0	84
157	Relative closeness ranking of Kalman filtering with multiple mismatched measurement noise covariances. IET Control Theory and Applications, 2018, 12, 1133-1140.	2.1	5
158	A real-time underwater robotic visual tracking strategy based on image restoration and kernelized correlation filters. , 2018, , .		3
159	Determining the minimal mulch film damage caused by the up-film transplanter. Advances in Mechanical Engineering, 2018, 10, 168781401876677.	1.6	4
160	An Optimal Task Allocation Approach for Large-Scale Multiple Robotic Systems With Hierarchical Framework and Resource Constraints. IEEE Systems Journal, 2018, 12, 3877-3880.	4.6	15
161	Three-Dimensional Modeling of a Fin-Actuated Robotic Fish With Multimodal Swimming. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1641-1652.	5.8	51
162	Linear impulsive control system with impulse time windows. JVC/Journal of Vibration and Control, 2017, 23, 111-118.	2.6	24

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163	An Inertial Projection Neural Network for Solving Variational Inequalities. IEEE Transactions on Cybernetics, 2017, 47, 809-814.	9.5	90
164	An Adaptive Takagi-Sugeno Fuzzy Model-Based Predictive Controller for Piezoelectric Actuators. IEEE Transactions on Industrial Electronics, 2017, 64, 3048-3058.	7.9	100
165	Sliding Mode Observer-Based Heading Control for a Gliding Robotic Dolphin. IEEE Transactions on Industrial Electronics, 2017, 64, 6815-6824.	7.9	52
166	Design and Implementation of a Magnetically Actuated Miniature Robotic Fish * *This work was supported by the National Natural Science Foundation of China (nos. 61633020, 61603388, 61633004 and) Tj ETQq0 0 0 rgBT /Overlo Development Award of SKLMCCS.. IFAC-PapersOnLine, 2017, 50, 6851-6856.	6.9	7
167	A survey on fabrication, control, and hydrodynamic function of biomimetic robotic fish. Science China Technological Sciences, 2017, 60, 1365-1380.	4.0	29
168	Development of a Novel Robotic Dolphin and Its Application to Water Quality Monitoring. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2130-2140.	5.8	62
169	A Bio-Inspired Robot With Undulatory Fins and Its Control Methods. IEEE/ASME Transactions on Mechatronics, 2017, 22, 206-216.	5.8	52
170	LMI Conditions for Global Stability of Fractional-Order Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2423-2433.	11.3	152
171	Development of a power line inspection robot with hybrid operation modes. , 2017, , .		40
172	Design and 3D Motion Modeling of a 300-m Gliding Robotic Dolphin * *This work was supported by the National Natural Science Foundation of China (nos. 61603388, 61375102, 61633017 and 61421004), the Beijing Natural Science Foundation (nos. 3141002 and 4164103), and by the Early Career Development Award of SKLMCCS.. IFAC-PapersOnLine, 2017, 50, 12685-12690.	0.9	8
173	Design and fabrication of a miniature underwater angle of attack sensor for robotic fish. , 2017, , .		1
174	Flippers-based turning analysis and implementation of a dolphin robot. , 2017, , .		4
175	A human-following approach using binocular camera. , 2017, , .		9
176	An Operation Management Cloud Ecosystem for Smart Buildings Based on Internet of Things. , 2017, , .		1
177	A Real-time and Unsupervised Advancement Scheme for Underwater Machine Vision. , 2017, , .		3
178	Design and implementation of a robotic dolphin for water quality monitoring. , 2016, , .		3
179	A novel active tracking system for robotic fish based on cascade control structure. , 2016, , .		1
180	Design and implementation of a robotic shark with a novel embedded vision system. , 2016, , .		8

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181	Parallel control and management system for biomimetic robotic fish based on ACP approach. , 2016, , .		0
182	Dynamics modeling and simulation for a gliding robotic dolphin. , 2016, , .		4
183	Data-Driven Dynamic Modeling for a Swimming Robotic Fish. IEEE Transactions on Industrial Electronics, 2016, 63, 5632-5640.	7.9	57
184	Precise planar motion measurement of a swimming multi-joint robotic fish. Science China Information Sciences, 2016, 59, 1.	4.3	25
185	Design of a camera stabilizer system for robotic fish based on feedback-feedforward control. , 2016, , .		5
186	Towards a miniature self-propelled jellyfish-like swimming robot. International Journal of Advanced Robotic Systems, 2016, 13, 172988141666679.	2.1	11
187	On a Miniature Free-Swimming Robotic Fish with Multiple Sensors. International Journal of Advanced Robotic Systems, 2016, 13, 62.	2.1	21
188	Analysis and verification of a miniature dolphin-like underwater glider. Industrial Robot, 2016, 43, 628-635.	2.1	10
189	Hydrodynamic analysis of a gliding robotic dolphin based on Computational Fluid Dynamics. , 2016, , .		5
190	Development of a Fast-Swimming Dolphin Robot Capable of Leaping. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2307-2316.	5.8	71
191	Design and Control of a Single-Motor-Actuated Robotic Fish Capable of Fast Swimming and Maneuverability. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1711-1719.	5.8	53
192	Bifurcation behaviors of an Euler discretized inertial delayed neuron model. Science China Technological Sciences, 2016, 59, 418-427.	4.0	8
193	An Integrative Control Method for Bio-Inspired Dolphin Leaping: Design and Experiments. IEEE Transactions on Industrial Electronics, 2016, 63, 3108-3116.	7.9	28
194	An Incidental Delivery Based Method for Resolving Multirobot Pairwise Transportation Problems. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1852-1866.	8.0	18
195	Development of an Underwater Manipulator and Its Free-Floating Autonomous Operation. IEEE/ASME Transactions on Mechatronics, 2016, 21, 815-824.	5.8	70
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