

Yantao Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

327
citations

7
h-index

16
g-index

65
ext. papers

435
ext. citations

2.6
avg, IF

3.46
L-index

#	Paper	IF	Citations
41	A deployable articulated mechanism enabled in-flight morphing aerial gripper. <i>Mechanism and Machine Theory</i> , 2022 , 167, 104518	4	1
40	Comparative Validation Study on Bioinspired Morphology-Adaptation Flight Performance of a Morphing Quad-Rotor. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 5145-5152	4.2	4
39	Spline-Based Modeling and Control of Soft Robots 2020 ,		1
38	Spline Based Curve Path Following of Underactuated Snake Robots 2019 ,		4
37	Dynamic Spatiotemporal Pattern Identification and Analysis Using a Fingertip-based Electro-Tactile Display Array 2019 ,		3
36	Non-linearity of Skin Properties in Electrotactile Applications: Identification and Mitigation. <i>IEEE Access</i> , 2019 , 7, 169844-169852	3.5	4
35	Distributed adaptive leader-following tracking control of networked Lagrangian systems with unknown control directions under undirected/directed graphs. <i>International Journal of Control</i> , 2019 , 92, 2886-2898	1.5	13
34	The Deformable Quad-Rotor: Mechanism Design, Kinematics, and Dynamics Effects Investigation. <i>Journal of Mechanisms and Robotics</i> , 2018 , 10,	2.2	6
33	Adaptive Path Following of Underactuated Snake Robot on Unknown and Varied Frictions Ground: Theory and Validations. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 4273-4280	4.2	12
32	The Deformable Quad-Rotor Enabled and Wasp-Pedal-Carrying Inspired Aerial Gripper 2018 ,		7
31	Adaptive Path Following of Snake Robot on Ground with Unknown and Varied Friction Coefficients 2018 ,		2
30	Light at night disrupts nocturnal rest and elevates glucocorticoids at cool color temperatures. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2018 , 329, 465-472	1.9	21
29	Bio-impedance identification of fingertip skin for enhancement of electro-tactile-based preference. <i>International Journal of Intelligent Robotics and Applications</i> , 2017 , 1, 327-341	1.7	3
28	PSD microscopy: a new technique for adaptive local scanning of microscale objects. <i>Robotics and Biomimetics</i> , 2017 , 4, 6		2
27	Improving low-cost inertial-measurement-unit (IMU)-based motion tracking accuracy for a biomorphic hyper-redundant snake robot. <i>Robotics and Biomimetics</i> , 2017 , 4, 16		6
26	The deformable quad-rotor: Design, kinematics and dynamics characterization, and flight performance validation 2017 ,		19
25	Improving a 3D-printed artificial anthropomorphic hand using the human hand model 2017 ,		1

24	Finger-eye: A wearable text reading assistive system for the blind and visually impaired 2016 ,		7
23	Adaptive local scanning: A comprehensive and intelligent method for fast scanning of indistinct objects 2015 ,		1
22	Improving measurement accuracy of Position Sensitive Detector (PSD) for a new scanning PSD microscopy system 2014 ,		4
21	Adaptive local scanning: A comprehensive and intelligent method for fast scanning of indistinct objects 2014 ,		1
20	Developing an Efficient Calibration System for Joint Offset of Industrial Robots. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-9	1.1	6
19	Durable and cost-effective 3-D microforce sensor for musical tuning enhanced micro palpation of biological entities 2013 ,		4
18	Measurement and analysis of braille stimulus to brain using an EEG: A preliminary study 2013 ,		1
17	A Humanoid Neck System Featuring Low Motion-Noise. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012 , 67, 101-116	2.9	10
16	Stimulation current control for load-aware electrotactile haptic rendering: Modeling and simulation 2011 ,		1
15	Two simple approaches to fabricate Au microlines on the outer surfaces of micropipettes. <i>Microsystem Technologies</i> , 2011 , 17, 1115-1121	1.7	1
14	High-Accuracy Positioning of an Industrial Robot Using Image/PSD-Based Hybrid Servo Control. <i>International Journal of Optomechatronics</i> , 2011 , 5, 170-187	3.5	3
13	Dynamically characterizing bioimpedance of fingertip skin through a developed CVD based electrotactile rendering system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 2011-1	0.9	
12	On-line bio-impedance identification of fingertip skin for enhancement of electrotactile based haptic rendering 2011 ,		2
11	Quantitatively characterizing automotive interior surfaces using an Optical TIR-based texture sensor 2009 ,		2
10	Position-Sensitive Detector (PSD) Guided Servoing Method for Industrial Robot Calibration. <i>International Journal of Optomechatronics</i> , 2009 , 3, 116-132	3.5	2
9	Disturbance observer-based hysteresis compensation for piezoelectric actuators 2009 ,		4
8	In-situ mechanical property evaluation of different stage Drosophila embryos with a minimally invasive microforce sensing tool 2009 ,		1
7	Disturbance-Observer-Based Hysteresis Compensation for Piezoelectric Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009 , 14, 456-464	5.5	134

6	In situ micro-force sensing and quantitative elasticity evaluation of living <i>Drosophila</i> embryos at different stages 2008 ,	2
5	High-accuracy visual/PSD hybrid servoing of robotic manipulator 2008 ,	11
4	Design and generation of DEP force for assembly of CNT-based nano devices 2008 ,	3
3	Quantitative mechanical evaluation and analysis of <i>Drosophila</i> embryos through the stages of embryogenesis. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2008 , 84, 204-14	4
2	A Rigid Morphing Mechanism Enabled Earthworm-like Crawling Robot. <i>Journal of Mechanisms and Robotics</i> ,1-13	2.2 3
1	Perception-Aware Path Finding and Following of Snake Robot in Unknown Environment	2