

# Yantao Shen

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

530  
citations

1162367

8  
h-index

839053

18  
g-index

65  
all docs

65  
docs citations

65  
times ranked

506  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disturbance-Observer-Based Hysteresis Compensation for Piezoelectric Actuators. IEEE/ASME Transactions on Mechatronics, 2009, 14, 456-464.	3.7	164
2	Light at night disrupts nocturnal rest and elevates glucocorticoids at cool color temperatures. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2018, 329, 465-472.	0.9	35
3	The deformable quad-rotor: Design, kinematics and dynamics characterization, and flight performance validation. , 2017, , .		29
4	Adaptive Path Following of Underactuated Snake Robot on Unknown and Varied Frictions Ground: Theory and Validations. IEEE Robotics and Automation Letters, 2018, 3, 4273-4280.	3.3	26
5	Distributed adaptive leader-following tracking control of networked Lagrangian systems with unknown control directions under undirected/directed graphs. International Journal of Control, 2019, 92, 2886-2898.	1.2	26
6	Finger-eye: A wearable text reading assistive system for the blind and visually impaired. , 2016, , .		16
7	A Humanoid Neck System Featuring Low Motion-Noise. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 67, 101-116.	2.0	14
8	The Deformable Quad-Rotor: Mechanism Design, Kinematics, and Dynamics Effects Investigation. Journal of Mechanisms and Robotics, 2018, 10, .	1.5	14
9	High-accuracy visual/PSD hybrid servoing of robotic manipulator. , 2008, , .		12
10	Improving low-cost inertial-measurement-unit (IMU)-based motion tracking accuracy for a biomorphic hyper-redundant snake robot. Robotics and Biomimetics, 2017, 4, 16.	1.7	12
11	The Deformable Quad-Rotor Enabled and Wasp-Pedal-Carrying Inspired Aerial Gripper. , 2018, , .		12
12	A deployable articulated mechanism enabled in-flight morphing aerial gripper. Mechanism and Machine Theory, 2022, 167, 104518.	2.7	12
13	A Rigid Morphing Mechanism Enabled Earthworm-Like Crawling Robot. Journal of Mechanisms and Robotics, 2023, 15, .	1.5	11
14	Spline Based Curve Path Following of Underactuated Snake Robots. , 2019, , .		10
15	Durable and cost-effective 3-D microforce sensor for musical tuning enhanced micro palpation of biological entities. , 2013, , .		9
16	Non-Linearity of Skin Properties in Electrotactile Applications: Identification and Mitigation. IEEE Access, 2019, 7, 169844-169852.	2.6	9
17	Adaptive Path Following of Snake Robot on Ground with Unknown and Varied Friction Coefficients. , 2018, , .		7
18	Comparative Validation Study on Bioinspired Morphology-Adaptation Flight Performance of a Morphing Quad-Rotor. IEEE Robotics and Automation Letters, 2021, 6, 5145-5152.	3.3	7

#	ARTICLE	IF	CITATIONS
19	Developing an Efficient Calibration System for Joint Offset of Industrial Robots. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.4	6
20	Dynamic Spatiotemporal Pattern Identification and Analysis Using a Fingertip-based Electro-Tactile Display Array. , 2019, , .		6
21	Disturbance observer-based hysteresis compensation for piezoelectric actuators. , 2009, , .		5
22	Improving measurement accuracy of Position Sensitive Detector (PSD) for a new scanning PSD microscopy system. , 2014, , .		5
23	Distributed Consensus Control of Multiple UAVs in a Constrained Environment. , 2020, , .		5
24	Perception-Aware Path Finding and Following of Snake Robot in Unknown Environment. , 2020, , .		5
25	Quantitative mechanical evaluation and analysis of <i>Drosophila</i> embryos through the stages of embryogenesis. Birth Defects Research Part C: Embryo Today Reviews, 2008, 84, 204-214.	3.6	4
26	Design and generation of DEP force for assembly of CNT-based nano devices. , 2008, , .		4
27	Position-Sensitive Detector (PSD) Guided Servoing Method for Industrial Robot Calibration. International Journal of Optomechatronics, 2009, 3, 116-132.	3.3	4
28	High-Accuracy Positioning of an Industrial Robot Using Image/PSD-Based Hybrid Servo Control. International Journal of Optomechatronics, 2011, 5, 170-187.	3.3	4
29	On-line bio-impedance identification of fingertip skin for enhancement of electrotactile based haptic rendering. , 2011, , .		4
30	Development of a biomimetic non-invasive radial pulse sensor: Design, calibration, and applications. , 2014, , .		4
31	Analysis and Validation of Serpentine Locomotion Dynamics of a Wheeled Snake Robot Moving on Varied Sloped Environments. , 2020, , .		4
32	Quantitatively characterizing automotive interior surfaces using an Optical TIR-based texture sensor. , 2009, , .		3
33	Development of an optical surface characterization sensor for simultaneously measuring both 3-D surface texture and mechanical properties. , 2010, , .		3
34	Bio-impedance identification of fingertip skin for enhancement of electro-tactile-based preference. International Journal of Intelligent Robotics and Applications, 2017, 1, 327-341.	1.6	3
35	PSD microscopy: a new technique for adaptive local scanning of microscale objects. Robotics and Biomimetics, 2017, 4, 6.	1.7	3
36	Wafer-level test system using a physical stimulus for a MEMS accelerometer. , 2017, , .		3

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37	In situ micro-force sensing and quantitative elasticity evaluation of living Drosophila embryos at different stages. , 2008, , .		2
38	Robot localization using an uncalibrated PSD servoing approach. , 2008, , .		2
39	Development of a low motion-noise humanoid neck: Statics analysis and experimental validation. , 2010, , .		2
40	CVD based electro-tactile haptic rendering system: Design and testing. , 2011, , .		2
41	Adaptive local scanning: A comprehensive and intelligent method for fast scanning of indistinct objects. , 2015, , .		2
42	Improving a 3D-printed artificial anthropomorphic hand using the human hand model. , 2017, , .		2
43	A Cost-Effective, High-Performance, and Bio-inspired Pulse Sensor for Quantitative Assessment of Arterial Stiffness. , 2019, , .		2
44	An Approximation-Free Simple Control Scheme for Uncertain Quadrotor Systems: Theory and Validations. , 2019, , .		2
45	Spline-Based Modeling and Control of Soft Robots. , 2020, , .		2
46	In-situ mechanical property evaluation of different stage Drosophila embryos with a minimally invasive microforce sensing tool. , 2009, , .		1
47	Stimulation current control for load-aware electro-tactile haptic rendering: Modeling and simulation. , 2011, , .		1
48	Two simple approaches to fabricate Au microlines on the outer surfaces of micropipettes. Microsystem Technologies, 2011, 17, 1115-1121.	1.2	1
49	Dynamically characterizing bioimpedance of fingertip skin through a developed CVD based electro-tactile rendering system. , 2011, 2011, 2941-4.		1
50	Mind-controlled micro-biomanipulation with position sensing feedback: System integration and validation. , 2012, , .		1
51	Musical tuning enhanced in-vitro micro/nano palpation for multi-scale biological entities. , 2013, , .		1
52	Measurement and analysis of braille stimulus to brain using an EEG: A preliminary study. , 2013, , .		1
53	Adaptive local scanning: A comprehensive and intelligent method for fast scanning of indistinct objects. , 2014, , .		1
54	Design, modeling and disturbance rejection control of a bio-inspired coaxial helicopter MAV in Atmospheric Boundary Layer. , 2015, , .		1

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55	Flash scanning: An ultra fast local scanning of complicated objects for PSD microscopy using 2D bisection. , 2017, , .		1
56	Inertial-Measurement-Unit (IMU) Based Motion Tracking for Biomorphic Hyper-Redundant Snake Robot. , 2017, , .		1
57	Event-Triggered Tracking Control Scheme for Quadrotors with External Disturbances: Theory and Validations. , 2022, , .		1
58	Quantitative biomechanical analysis of Drosophila embryos through the stages of embryogenesis using a sensorized human/robot cooperative interface. , 2008, , .		0
59	Measuring Primary Hepatocyte adhesion on polyelectrolyte multilayer films by a passive detachment sensing tool. , 2010, , .		0
60	Tracking objects of arbitrary shape using expectation-maximization algorithm. , 2011, , .		0
61	Modeling, control and stabilization analysis on a two-link active tumbler system. , 2014, , .		0
62	A wearable multi-modal human performance monitoring system for video display terminal users: Concept, development and clinical data validation. , 2016, , .		0
63	Efficient and Smooth Enhanced Curve Path Following of Underactuated Snake Robots. , 2019, , .		0
64	Tracking objects of arbitrary shape using Expectation-Maximization algorithm. , 2011, , .		0
65	Opto-electrotactile Feedback Enabled Text-line Tracking Control for A Finger-wearable Reading Aid for the Blind. , 2022, , .		0