Shan Luo

List of Publications by Year
in descending order

35	977	759233 12	752698 20
papers	citations	h-index	g-index

36	36	36	728
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In-Device Feedback in Immersive Head-Mounted Displays for Distance Perception During Teleoperation of Unmanned Ground Vehicles. IEEE Transactions on Haptics, 2022, 15, 79-84.	2.7	7
2	Environment-adaptive learning from demonstration for proactive assistance in humanâ€“robot collaborative tasks. Robotics and Autonomous Systems, 2022, 151, 104046.	5.1	8
3	GelTip tactile sensor for dexterous manipulation in clutter. , 2022, , 3-21.		1
4	Robotic perception of object properties using tactile sensing. , 2022, , 23-44.		1
5	Multimodal perception for dexterous manipulation. , 2022, , 45-58.		1
6	Representation and Processing of Instantaneous and Durative Temporal Phenomena. Lecture Notes in Computer Science, 2022, , 135-156.	1.3	2
7	End-to-end weakly supervised semantic segmentation with reliable region mining. Pattern Recognition, 2022, 128, 108663.	8.1	17
8	Facial Expressions-Controlled Flight Game With Haptic Feedback for Stroke Rehabilitation: A Proof-of-Concept Study. IEEE Robotics and Automation Letters, 2022, 7, 6351-6358.	5.1	1
9	A4T: Hierarchical Affordance Detection for Transparent Objects Depth Reconstruction and Manipulation. IEEE Robotics and Automation Letters, 2022, 7, 9826-9833.	5.1	14
10	Reducing Tactile Sim2Real Domain Gaps via Deep Texture Generation Networks. , 2022, , .		4
11	An Overview of Verification and Validation Challenges for Inspection Robots. Robotics, 2021, 10, 67.	3.5	30
12	Generation of GelSight Tactile Images for Sim2Real Learning. IEEE Robotics and Automation Letters, 2021, 6, 4177-4184.	5.1	40
13	Editorial: ViTac: Integrating Vision and Touch for Multimodal and Cross-Modal Perception. Frontiers in Robotics and AI, 2021, 8, 697601.	3.2	7
14	Vision-Guided Active Tactile Perception for Crack Detection and Reconstruction. , 2021, , .		4
15	Monoscopic vs. Stereoscopic Views and Display Types in the Teleoperation of Unmanned Ground Vehicles for Object Avoidance. , 2021, , .		10
16	Logic Rules Meet Deep Learning: A Novel Approach for Ship Type Classification. Lecture Notes in Computer Science, 2021, , 203-217.	1.3	3
17	Blocks World of Touch: Exploiting the Advantages of All-Around Finger Sensing in Robot Grasping. Frontiers in Robotics and AI, 2020, 7, 541661.	3.2	13
18	GelTip: A Finger-shaped Optical Tactile Sensor for Robotic Manipulation. , 2020, , .		40

#	Article	IF	Citations
19	Spatio-temporal Attention Model for Tactile Texture Recognition. , 2020, , .		16
20	iCLAP: shape recognition by combining proprioception and touch sensing. Autonomous Robots, 2019, 43, 993-1004.	4.8	28
21	â€œTouching to Seeâ€•and â€œSeeing to Feelâ€• Robotic Cross-modal Sensory Data Generation for Visual-Tactile Perception. , 2019, , .		44
22	ViTac: Feature Sharing Between Vision and Tactile Sensing for Cloth Texture Recognition. , 2018, , .		71
23	Knock-Knock: Acoustic object recognition by using stacked denoising autoencoders. Neurocomputing, 2017, 267, 18-24.	5.9	39
24	Robotic tactile perception of object properties: A review. Mechatronics, 2017, 48, 54-67.	3.3	269
25	Iterative Closest Labeled Point for tactile object shape recognition. , 2016, , .		28
26	A tactile sensing and feedback system for tumor localization. , 2016, , .		11
27	In-Hand Object Pose Estimation Using Covariance-Based Tactile To Geometry Matching. IEEE Robotics and Automation Letters, 2016, 1, 570-577.	5.1	51
28	Evaluation of Pseudo-Haptic Interactions with Soft Objects in Virtual Environments. PLoS ONE, 2016, 11, e0157681.	2.5	13
29	Localizing the object contact through matching tactile features with visual map. , 2015, , .		29
30	Novel Tactile-SIFT Descriptor for Object Shape Recognition. IEEE Sensors Journal, 2015, 15, 5001-5009.	4.7	86
31	Tactile Object Recognition with Semi-Supervised Learning. Lecture Notes in Computer Science, 2015, , 15-26.	1.3	8
32	Rotation and translation invariant object recognition with a tactile sensor. , 2014, , .		11
33	Multi-fingered haptic palpation using pneumatic feedback actuators. Sensors and Actuators A: Physical, 2014, 218, 132-141.	4.1	42
34	Fiber optics tactile array probe for tissue palpation during minimally invasive surgery. , 2013, , .		17
35	Haptics for Multi-fingered Palpation. , 2013, , .		10