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	Robotic tactile perception of object properties: A review. Mechatronics, 2017, 48, 54-67.	3.3	269
2	Novel Tactile-SIFT Descriptor for Object Shape Recognition. IEEE Sensors Journal, 2015, 15, 5001-5009.	4.7	86
3	ViTac: Feature Sharing Between Vision and Tactile Sensing for Cloth Texture Recognition. , 2018, , .		71
4	In-Hand Object Pose Estimation Using Covariance-Based Tactile To Geometry Matching. IEEE Robotics and Automation Letters, 2016, 1, 570-577.	5.1	51
5	â€œTouching to Seeâ€•and â€œSeeing to Feelâ€• Robotic Cross-modal Sensory Data Generation for Visual-Tactile Perception. , 2019, , .		44
6	Multi-fingered haptic palpation using pneumatic feedback actuators. Sensors and Actuators A: Physical, 2014, 218, 132-141.	4.1	42
7	Generation of GelSight Tactile Images for Sim2Real Learning. IEEE Robotics and Automation Letters, 2021, 6, 4177-4184.	5.1	40
8	GelTip: A Finger-shaped Optical Tactile Sensor for Robotic Manipulation. , 2020, , .		40
9	Knock-Knock: Acoustic object recognition by using stacked denoising autoencoders. Neurocomputing, 2017, 267, 18-24.	5.9	39
10	An Overview of Verification and Validation Challenges for Inspection Robots. Robotics, 2021, 10, 67.	3.5	30
11	Localizing the object contact through matching tactile features with visual map. , 2015, , .		29
12	Iterative Closest Labeled Point for tactile object shape recognition. , 2016, , .		28
13	iCLAP: shape recognition by combining proprioception and touch sensing. Autonomous Robots, 2019, 43, 993-1004.	4.8	28
14	Fiber optics tactile array probe for tissue palpation during minimally invasive surgery. , 2013, , .		17
15	End-to-end weakly supervised semantic segmentation with reliable region mining. Pattern Recognition, 2022, 128, 108663.	8.1	17
16	Spatio-temporal Attention Model for Tactile Texture Recognition. , 2020, , .		16
17	A4T: Hierarchical Affordance Detection for Transparent Objects Depth Reconstruction and Manipulation. IEEE Robotics and Automation Letters, 2022, 7, 9826-9833.	5.1	14
18	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

#	Article	IF	Citations
19	Evaluation of Pseudo-Haptic Interactions with Soft Objects in Virtual Environments. PLoS ONE, 2016, 11, e0157681.	2.5	13
20	Rotation and translation invariant object recognition with a tactile sensor. , 2014, , .		11
21	A tactile sensing and feedback system for tumor localization. , 2016, , .		11
22	Haptics for Multi-fingered Palpation. , 2013, , .		10
23	Monoscopic vs. Stereoscopic Views and Display Types in the Teleoperation of Unmanned Ground Vehicles for Object Avoidance. , 2021, , .		10
24	Tactile Object Recognition with Semi-Supervised Learning. Lecture Notes in Computer Science, 2015, , 15-26.	1.3	8
25	Environment-adaptive learning from demonstration for proactive assistance in humanâ€“robot collaborative tasks. Robotics and Autonomous Systems, 2022, 151, 104046.	5.1	8
26	Editorial: ViTac: Integrating Vision and Touch for Multimodal and Cross-Modal Perception. Frontiers in Robotics and AI, 2021, 8, 697601.	3.2	7
27	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
28	Vision-Guided Active Tactile Perception for Crack Detection and Reconstruction. , 2021, , .		4
29	Reducing Tactile Sim2Real Domain Gaps via Deep Texture Generation Networks. , 2022, , .		4
30	Logic Rules Meet Deep Learning: A Novel Approach for Ship Type Classification. Lecture Notes in Computer Science, 2021, , 203-217.	1.3	3
31	Representation and Processing of Instantaneous and Durative Temporal Phenomena. Lecture Notes in Computer Science, 2022, , 135-156.	1.3	2
32	GelTip tactile sensor for dexterous manipulation in clutter. , 2022, , 3-21.		1
33	Robotic perception of object properties using tactile sensing. , 2022, , 23-44.		1
34	Multimodal perception for dexterous manipulation. , 2022, , 45-58.		1
35	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