

# Huaping Liu

## List of Publications by Citations

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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.

120  
papers

1,829  
citations

20  
h-index

40  
g-index

129  
ext. papers

2,397  
ext. citations

4.7  
avg. IF

5.67  
L-index

#	Paper	IF	Citations
120	FoveaBox: Beyond Anchor-Based Object Detection. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 7389-7398	8.7	234
119	RON: Reverse Connection with Objectness Prior Networks for Object Detection <b>2017</b> ,		210
118	Object Recognition Using Tactile Measurements: Kernel Sparse Coding Methods. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 656-665	5.2	142
117	Visual-Tactile Fusion for Object Recognition. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2017</b> , 14, 996-1008	4.9	140
116	Deep Feature Pyramid Reconfiguration for Object Detection. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 172-188	0.9	69
115	Extreme Kernel Sparse Learning for Tactile Object Recognition. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 4509-4520	10.2	64
114	Robotic Room-Level Localization Using Multiple Sets of Sonar Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 2-13	5.2	58
113	Fusion tracking in color and infrared images using joint sparse representation. <i>Science China Information Sciences</i> , <b>2012</b> , 55, 590-599	3.4	54
112	Weakly Paired Multimodal Fusion for Object Recognition. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2018</b> , 15, 784-795	4.9	50
111	Structured Output-Associated Dictionary Learning for Haptic Understanding. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1564-1574	7.3	40
110	Multimodal Measurements Fusion for Surface Material Categorization. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 246-256	5.2	35
109	Lifelong Learning for Scene Recognition in Remote Sensing Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 1472-1476	4.1	30
108	Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 3391-3400	7.3	30
107	Multi-modal local receptive field extreme learning machine for object recognition. <i>Neurocomputing</i> , <b>2018</b> , 277, 4-11	5.4	27
106	Recent progress on tactile object recognition. <i>International Journal of Advanced Robotic Systems</i> , <b>2017</b> , 14, 172988141771705	1.4	24
105	Feature Pyramid Reconfiguration with Consistent Loss for Object Detection. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> ,	8.7	23
104	Active Object Detection With Multistep Action Prediction Using Deep Q-Network. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 3723-3731	11.9	23

103	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2014</b> , 10, 1736-1745	11.9	22
102	Robotic Material Perception Using Active Multimodal Fusion. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9878-9886	8.9	22
101	Robotic grasping recognition using multi-modal deep extreme learning machine. <i>Multidimensional Systems and Signal Processing</i> , <b>2017</b> , 28, 817-833	1.8	21
100	Material Identification Using Tactile Perception: A Semantics-Regularized Dictionary Learning Method. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 1050-1058	5.5	20
99	A Dual-Modal Vision-Based Tactile Sensor for Robotic Hand Grasping <b>2018</b> ,		19
98	Active object recognition using hierarchical local-receptive-field-based extreme learning machine. <i>Memetic Computing</i> , <b>2018</b> , 10, 233-241	3.4	18
97	Extreme Trust Region Policy Optimization for Active Object Recognition. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 2253-2258	10.3	17
96	Design and Output Characteristics of Magnetostrictive Tactile Sensor for Detecting Force and Stiffness of Manipulated Objects. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 1219-1225	11.9	17
95	Surface Material Retrieval Using Weakly Paired Cross-Modal Learning. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2019</b> , 16, 781-791	4.9	16
94	Kernel Regularized Nonlinear Dictionary Learning for Sparse Coding. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 766-775	7.3	16
93	Cross-Modal Surface Material Retrieval Using Discriminant Adversarial Learning. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 4978-4987	11.9	15
92	RGB-D action recognition using linear coding. <i>Neurocomputing</i> , <b>2015</b> , 149, 79-85	5.4	15
91	Deep Reinforcement Learning for Robotic Pushing and Picking in Cluttered Environment <b>2019</b> ,		15
90	A Cognitively Inspired System Architecture for the Mengshi Cognitive Vehicle. <i>Cognitive Computation</i> , <b>2020</b> , 12, 140-149	4.4	14
89	Cross-Modal Zero-Shot-Learning for Tactile Object Recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 2466-2474	7.3	14
88	Denosing deep extreme learning machine for sparse representation. <i>Memetic Computing</i> , <b>2017</b> , 9, 199-212	3.1	13
87	Multitask Extreme Learning Machine for Visual Tracking. <i>Cognitive Computation</i> , <b>2014</b> , 6, 391-404	4.4	13
86	A fast RetinaNet fusion framework for multi-spectral pedestrian detection. <i>Infrared Physics and Technology</i> , <b>2020</b> , 105, 103178	2.7	13

85	Extreme learning machine for time sequence classification. <i>Neurocomputing</i> , <b>2016</b> , 174, 322-330	5.4	12
84	Dynamic texture video classification using extreme learning machine. <i>Neurocomputing</i> , <b>2016</b> , 174, 278-285	5.4	12
83	Discriminative sparse subspace learning and its application to unsupervised feature selection. <i>ISA Transactions</i> , <b>2016</b> , 61, 104-118	5.5	12
82	Robotic teleoperation systems using a wearable multimodal fusion device. <i>International Journal of Advanced Robotic Systems</i> , <b>2017</b> , 14, 172988141771705	1.4	12
81	Bio-Inspired Magnetostrictive Tactile Sensor for Surface Material Recognition. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-7	2	9
80	Nonlinear sampled-data ESO-based active disturbance rejection control for networked control systems with actuator saturation. <i>Nonlinear Dynamics</i> , <b>2019</b> , 95, 1415-1434	5	9
79	Active Visual-Tactile Cross-Modal Matching. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , <b>2019</b> , 11, 176-187	3	9
78	TrajectoryCNN: A New Spatio-Temporal Feature Learning Network for Human Motion Prediction. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 31, 2133-2146	6.4	9
77	Weakly paired multimodal fusion using multilayer extreme learning machine. <i>Soft Computing</i> , <b>2018</b> , 22, 3533-3544	3.5	8
76	An end-to-end learning method for industrial defect detection. <i>Assembly Automation</i> , <b>2019</b> , 40, 31-39	2.1	8
75	Near-Nash Equilibrium Control Strategy for Discrete-Time Nonlinear Systems With Round-Robin Protocol. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> , 30, 2478-2492	10.3	8
74	Structural design and output characteristic analysis of magnetostrictive tactile sensor for robotic applications. <i>AIP Advances</i> , <b>2018</b> , 8, 056622	1.5	7
73	Multimodal Dynamics Analysis and Control for Amphibious Fly-Drive Vehicle. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 621-632	5.5	7
72	Learning cross-modal visual-tactile representation using ensembled generative adversarial networks. <i>Cognitive Computation and Systems</i> , <b>2019</b> , 1, 40-44	1.2	7
71	Autonomous exploration for mobile robot using Q-learning <b>2017</b> ,		6
70	Discovery of Topical Objects from Video: A Structured Dictionary Learning Approach. <i>Cognitive Computation</i> , <b>2016</b> , 8, 519-528	4.4	6
69	Surface Material Recognition Using Active Multi-modal Extreme Learning Machine. <i>Cognitive Computation</i> , <b>2018</b> , 10, 937-950	4.4	6
68	Local receptive field based extreme learning machine with three channels for histopathological image classification. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2019</b> , 10, 1437-1447	3.8	6

67	Linear dynamic system method for tactile object classification. <i>Science China Information Sciences</i> , <b>2014</b> , 57, 1-11	3.4	6
66	Active Affordance Exploration for Robot Grasping. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 426-438	0.9	6
65	Cross-Modal Material Perception for Novel Objects: A Deep Adversarial Learning Method. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2020</b> , 17, 697-707	4.9	6
64	Haptic recognition using hierarchical extreme learning machine with local-receptive-field. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2019</b> , 10, 541-547	3.8	6
63	Weakly-paired deep dictionary learning for cross-modal retrieval. <i>Pattern Recognition Letters</i> , <b>2020</b> , 130, 199-206	4.7	6
62	Lifelong Learning for Heterogeneous Multi-Modal Tasks <b>2019</b> ,		5
61	A glove-based system for object recognition via visual-tactile fusion. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	5
60	Bioinspired Embodiment for Intelligent Sensing and Dexterity in Fine Manipulation: A Survey. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 4308-4321	11.9	5
59	Multi-Modal Local Receptive Field Extreme Learning Machine for object recognition <b>2016</b> ,		5
58	An Interactive Perception Method for Warehouse Automation in Smart Cities. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 830-838	11.9	5
57	Robotic Tactile Perception and Understanding <b>2018</b> ,		4
56	Video key-frame extraction for smart phones. <i>Multimedia Tools and Applications</i> , <b>2016</b> , 75, 2031-2049	2.5	4
55	Towards Embodied Scene Description		4
54	Scene-Level Geographic Image Classification Based on a Covariance Descriptor Using Supervised Collaborative Kernel Coding. <i>Sensors</i> , <b>2016</b> , 16,	3.8	4
53	Lifelong Visual-Tactile Cross-Modal Learning for Robotic Material Perception. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , 32, 1192-1203	10.3	4
52	Tactile-based Fabric Defect Detection Using Convolutional Neural Network with Attention Mechanism. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	4
51	Seeing by touching: Cross-modal matching for tactile and vision measurements <b>2017</b> ,		3
50	Open-Environment Robotic Acoustic Perception for Object Recognition. <i>Frontiers in Neurorobotics</i> , <b>2019</b> , 13, 96	3.4	3

49	Near-Optimal Control for Time-Varying Linear Discrete Systems With Additive Nonlinearities and Random Gains. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 2968-2975	5.9	3
48	Active Object Detection Using Double DQN and Prioritized Experience Replay <b>2018</b> ,		3
47	Sound-Indicated Visual Object Detection for Robotic Exploration <b>2019</b> ,		2
46	Guest Editorial Special Issue on Bioinspired Embodiment for Intelligent Sensing and Dexterity in Fine Manipulation. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 1141-1143	11.9	2
45	Model Predictive Cooperative Control With ISM for Multiagent Systems Under Stochastic Communication Protocol. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	2
44	Multi-agent Embodied Question Answering in Interactive Environments. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 663-678	0.9	2
43	Lifelong learning for tactile emotion recognition. <i>Interaction Studies</i> , <b>2019</b> , 20, 25-41	1.3	2
42	Wearable Technology for Robotic Manipulation and Learning <b>2020</b> ,		2
41	Toward Image-to-Tactile Cross-Modal Perception for Visually Impaired People. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 521-529	4.9	2
40	Visual-Tactile Fusion Material Identification Using Dictionary Learning <b>2018</b> , 159-182		2
39	Interactive video summarization with human intentions. <i>Multimedia Tools and Applications</i> , <b>2019</b> , 78, 1737-1755	2.5	1
38	Room categorization using local receptive fields-based extreme learning machine <b>2017</b> ,		1
37	A deep Q network for robotic planning from image <b>2017</b> ,		1
36	Multi-Agent Embodied Visual Semantic Navigation With Scene Prior Knowledge. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 3154-3161	4.2	1
35	OpenMPD: An Open Multimodal Perception Dataset for Autonomous Driving. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	1
34	Wearable Sensors <b>2020</b> , 33-63		1
33	Learning from Wearable-Based Teleoperation Demonstration <b>2020</b> , 127-144		1
32	A novel multimodal fusion network based on a joint-coding model for lane line segmentation. <i>Information Fusion</i> , <b>2022</b> , 80, 167-178	16.7	1

31	Research on Recognition of Multi-user Haptic Gestures. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2020</b> , 134-143	0.2	1
30	A Magnetostrictive Tactile Sensing Unit and the Integration of Sensor Array for Intelligent Manipulator. <i>IEEE Access</i> , <b>2020</b> , 8, 187848-187857	3.5	1
29	Online weakly paired similarity learning for surface material retrieval. <i>Industrial Robot</i> , <b>2019</b> , 46, 396-403	1.4	1
28	Cross-modal learning for material perception using deep extreme learning machine. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2020</b> , 11, 813-823	3.8	1
27	Road-Network-Based Fast Geolocalization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 59, 6065-6076	8.1	1
26	Wood material recognition for industrial applications. <i>Systems Science and Control Engineering</i> , <b>2018</b> , 6, 346-358	2	1
25	Estimating 6D Object Poses with Temporal Motion Reasoning for Robot Grasping in Cluttered Scenes. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 1-1	4.2	0
24	REVE-CE: Remote Embodied Visual Referring Expression in Continuous Environment. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 1494-1501	4.2	0
23	Embodied scene description. <i>Autonomous Robots</i> , 1	3	0
22	Multi-modal broad learning for material recognition. <i>Cognitive Computation and Systems</i> , <b>2021</b> , 3, 123-130	2	0
21	Deep learning for diplomatic video analysis. <i>Multimedia Tools and Applications</i> , <b>2020</b> , 79, 4811-4830	2.5	0
20	Audiovisual cross-modal material surface retrieval. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 14301-14309	1.8	0
19	Active Object Discovery and Localization Using Sound-Induced Attention. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 2021-2029	11.9	0
18	Visual-Tactile Fusion Object Recognition Using Joint Sparse Coding <b>2018</b> , 135-158		0
17	Energy-based Periodicity Mining with Deep Features for Action Repetition Counting in Unconstrained Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 1-1	6.4	0
16	Visual Affordance Guided Tactile Material Recognition for Waste Recycling. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-9	4.9	0
15	Remote sensing image classification using extreme learning machine-guided collaborative coding. <i>Multidimensional Systems and Signal Processing</i> , <b>2017</b> , 28, 835-850	1.8	
14	Guest Editorial Special Issue on Active Perception for Industrial Intelligence. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2019</b> , 16, 1498-1499	4.9	

- 13 Tactile Object Recognition Using Supervised Dictionary Learning **2018**, 71-95
- 12 Visual-Tactile Cross-Modal Matching Using Common Dictionary Learning **2018**, 183-202
- 11 Representation of Tactile and Visual Modalities **2018**, 33-44
- 10 Tactile Adjective Understanding Using Structured Output-Associated Dictionary Learning **2018**, 97-116
- 9 A dynamic extremum seeking scheme for three-player attack-defense with unknown gradient. *Journal of the Franklin Institute*, **2022**, 359, 1457-1482 4
- 8 Wearable Design and Computing **2020**, 65-87
- 7 Learning from Visual-Based Teleoperation Demonstration **2020**, 145-172
- 6 Learning from Wearable-Based Indirect Demonstration **2020**, 173-203
- 5 Tactile Material Identification Using Semantics-Regularized Dictionary Learning **2018**, 117-132
- 4 Tactile Object Recognition Using Joint Sparse Coding **2018**, 47-69
- 3 Applications of Developed Wearable Devices **2020**, 89-123
- 2 Research on visual-tactile cross-modality based on generative adversarial network. *Cognitive Computation and Systems*, **2021**, 3, 131-141 1.2
- 1 Multimodal Continual Learning Using Online Dictionary Updating. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 13, 171-178 3