

# Yonghong Tian

## List of Publications by Year in descending order

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Version: 2024-02-01

115  
papers

3,558  
citations

279798

23  
h-index

330143

37  
g-index

115  
all docs

115  
docs citations

115  
times ranked

2553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Relative Distance Learning: Tell the Difference between Similar Vehicles. , 2016, , .		471
2	Unsupervised Cross-Dataset Transfer Learning for Person Re-identification. , 2016, , .		277
3	Part-Regularized Near-Duplicate Vehicle Re-Identification. , 2019, , .		178
4	Selectivity or Invariance: Boundary-Aware Salient Object Detection. , 2019, , .		129
5	Probabilistic Multi-Task Learning for Visual Saliency Estimation in Video. International Journal of Computer Vision, 2010, 90, 150-165.	15.6	117
6	Transductive Episodic-Wise Adaptive Metric for Few-Shot Learning. , 2019, , .		113
7	Channel Pruning via Automatic Structure Search. , 2020, , .		111
8	Background-Modeling-Based Adaptive Prediction for Surveillance Video Coding. IEEE Transactions on Image Processing, 2014, 23, 769-784.	9.8	89
9	Exploiting Multi-grain Ranking Constraints for Precisely Searching Visually-similar Vehicles. , 2017, , .		83
10	Learning Discriminative Subspaces on Random Contrasts for Image Saliency Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1095-1108.	11.3	76
11	Joint Semantic and Latent Attribute Modelling for Cross-Class Transfer Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1625-1638.	13.9	75
12	Quality Assessment for Comparing Image Enhancement Algorithms. , 2014, , .		72
13	Finding the Secret of Image Saliency in the Frequency Domain. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2428-2440.	13.9	71
14	Adversarial Reciprocal Points Learning for Open Set Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	60
15	Optimizing the Hierarchical Prediction and Coding in HEVC for Surveillance and Conference Videos With Background Modeling. IEEE Transactions on Image Processing, 2014, 23, 4511-4526.	9.8	57
16	Visual Saliency with Statistical Priors. International Journal of Computer Vision, 2014, 107, 239-253.	15.6	55
17	Robust multiple cameras pedestrian detection with multi-view Bayesian network. Pattern Recognition, 2015, 48, 1760-1772.	8.1	48
18	Deep Transfer Learning for Person Re-Identification. , 2018, , .		47

#	ARTICLE	IF	CITATIONS
19	Hyperspectral Image Restoration: Where Does the Low-Rank Property Exist. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6869-6884.	6.3	45
20	GAN-Driven Personalized Spatial-Temporal Private Data Sharing in Cyber-Physical Social Systems. IEEE Transactions on Network Science and Engineering, 2020, 7, 2576-2586.	6.4	44
21	Optimal ANN-SNN Conversion for Fast and Accurate Inference in Deep Spiking Neural Networks. , 2021, , .		43
22	Salient Object Detection With Purificatory Mechanism and Structural Similarity Loss. IEEE Transactions on Image Processing, 2021, 30, 6855-6868.	9.8	42
23	The IEEE 1857 Standard: Empowering Smart Video Surveillance Systems. IEEE Intelligent Systems, 2014, 29, 30-39.	4.0	41
24	Learning Long-Term Dependencies for Action Recognition with a Biologically-Inspired Deep Network. , 2017, , .		41
25	Learning Complementary Saliency Priors for Foreground Object Segmentation in Complex Scenes. International Journal of Computer Vision, 2015, 111, 153-170.	15.6	37
26	ODN: Opening the Deep Network for Open-Set Action Recognition. , 2018, , .		35
27	Dynamic Attention Guided Multi-Trajectory Analysis for Single Object Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4895-4908.	8.3	34
28	Group-sensitive multiple kernel learning for object categorization. , 2009, , .		33
29	Selective Eigenbackground for Background Modeling and Subtraction in Crowded Scenes. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1849-1864.	8.3	33
30	A Retina-Inspired Sampling Method for Visual Texture Reconstruction. , 2019, , .		33
31	Reconstruction of natural visual scenes from neural spikes with deep neural networks. Neural Networks, 2020, 125, 19-30.	5.9	33
32	P-ODN: Prototype-based Open Deep Network for Open Set Recognition. Scientific Reports, 2020, 10, 7146.	3.3	32
33	Event-Based Vision Enhanced: A Joint Detection Framework in Autonomous Driving. , 2019, , .		31
34	Spike Camera and Its Coding Methods. , 2017, , .		30
35	Automatic interesting object extraction from images using complementary saliency maps. , 2010, , .		29
36	Multi-Task Rank Learning for Visual Saliency Estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 623-636.	8.3	29

#	ARTICLE	IF	CITATIONS
37	Multi-Class Part Parsing With Joint Boundary-Semantic Awareness. , 2019, , .		29
38	Low-complexity and high-efficiency background modeling for surveillance video coding. , 2012, , .		26
39	MIGO-NAS: Towards Fast and Generalizable Neural Architecture Search. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2936-2952.	13.9	26
40	Estimating Visual Saliency Through Single Image Optimization. IEEE Signal Processing Letters, 2013, 20, 845-848.	3.6	25
41	Spike Coding for Dynamic Vision Sensor in Intelligent Driving. IEEE Internet of Things Journal, 2019, 6, 60-71.	8.7	25
42	Filter Sketch for Network Pruning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7091-7100.	11.3	25
43	Spike Coding for Dynamic Vision Sensors. , 2018, , .		24
44	Single underwater image enhancement with a new optical model. , 2013, , .		23
45	Toward the Next Generation of Retinal Neuroprosthesis: Visual Computation with Spikes. Engineering, 2020, 6, 449-461.	6.7	23
46	Rate-Performance-Loss Optimization for Inter-Frame Deep Feature Coding From Videos. IEEE Transactions on Image Processing, 2017, 26, 5743-5757.	9.8	21
47	Asynchronous Spatio-Temporal Memory Network for Continuous Event-Based Object Detection. IEEE Transactions on Image Processing, 2022, 31, 2975-2987.	9.8	21
48	Salient region detection and segmentation for general object recognition and image understanding. Science China Information Sciences, 2011, 54, 2461-2470.	4.3	19
49	Digital Retina: A Way to Make the City Brain More Efficient by Visual Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4147-4161.	8.3	19
50	Part-Guided Relational Transformers for Fine-Grained Visual Recognition. IEEE Transactions on Image Processing, 2021, 30, 9470-9481.	9.8	19
51	Cost-Sensitive Rank Learning From Positive and Unlabeled Data for Visual Saliency Estimation. IEEE Signal Processing Letters, 2010, 17, 591-594.	3.6	18
52	An Efficient Coding Method for Spike Camera Using Inter-Spike Intervals. , 2019, , .		18
53	Rethinking Performance Estimation in Neural Architecture Search. , 2020, , .		18
54	Fast and Efficient Transcoding Based on Low-Complexity Background Modeling and Adaptive Block Classification. IEEE Transactions on Multimedia, 2013, 15, 1769-1785.	7.2	17

#	ARTICLE	IF	CITATIONS
55	Distortion-Adaptive Salient Object Detection in 360° Omnidirectional Images. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 38-48.	10.8	17
56	Joint Coding of Local and Global Deep Features in Videos for Visual Search. IEEE Transactions on Image Processing, 2020, 29, 3734-3749.	9.8	16
57	Pruning of Deep Spiking Neural Networks through Gradient Rewiring. , 2021, , .		16
58	Video Copy Detection Using a Soft Cascade of Multimodal Features. , 2012, , .		15
59	Video Copy-Detection and Localization with a Scalable Cascading Framework. IEEE MultiMedia, 2013, 20, 72-86.	1.7	15
60	Content-based copy detection through multimodal feature representation and temporal pyramid matching. ACM Transactions on Multimedia Computing, Communications and Applications, 2013, 10, 1-20.	4.3	15
61	Free-view gait recognition. PLoS ONE, 2019, 14, e0214389.	2.5	15
62	Collaborative Intelligence: Challenges and Opportunities. , 2021, , .		15
63	Surveillance video coding with quadtree partition based ROI extraction. , 2013, , .		13
64	Distilling a Powerful Student Model via Online Knowledge Distillation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8743-8752.	11.3	13
65	Mediaprinting: Identifying Multimedia Content for Digital Rights Management. Computer, 2010, 43, 28-35.	1.1	12
66	Ordinal Multi-Task Part Segmentation With Recurrent Prior Generation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1636-1648.	13.9	10
67	Digital retina: revolutionizing camera systems for the smart city. Scientia Sinica Informationis, 2018, 48, 1076-1082.	0.4	10
68	Carrying Out CNN Channel Pruning in a White Box. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7946-7955.	11.3	10
69	NeuSpike-Net: High Speed Video Reconstruction via Bio-inspired Neuromorphic Cameras. , 2021, , .		10
70	Measuring Visual Surprise Jointly from Intrinsic and Extrinsic Contexts for Image Saliency Estimation. International Journal of Computer Vision, 2016, 120, 44-60.	15.6	9
71	Neural System Identification With Spike-Triggered Non-Negative Matrix Factorization. IEEE Transactions on Cybernetics, 2022, 52, 4772-4783.	9.5	9
72	Fast Class-wise Updating for Online Hashing. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	13.9	9

#	ARTICLE	IF	CITATIONS
73	Single and Multiple View Detection, Tracking and Video Analysis in Crowded Environments. , 2012, , .		8
74	Global Co-occurrence Feature Learning and Active Coordinate System Conversion for Skeleton-based Action Recognition. , 2020, , .		8
75	Self-Guided Adaptation: Progressive Representation Alignment for Domain Adaptive Object Detection. IEEE Transactions on Multimedia, 2022, 24, 2246-2258.	7.2	8
76	A background proportion adaptive Lagrange multiplier selection method for surveillance video on HEVC. , 2013, , .		7
77	Detecting abnormal behaviors in surveillance videos based on fuzzy clustering and multiple Auto-Encoders. , 2015, , .		7
78	Fixed-point Gaussian Mixture Model for analysis-friendly surveillance video coding. Computer Vision and Image Understanding, 2016, 142, 65-79.	4.7	7
79	Hierarchical Temporal Memory Enhanced One-Shot Distance Learning for Action Recognition. , 2018, , .		7
80	Residual-Based Post-Processing for HEVC. IEEE MultiMedia, 2019, 26, 67-79.	1.7	7
81	Probabilistic inference of binary Markov random fields in spiking neural networks through mean-field approximation. Neural Networks, 2020, 126, 42-51.	5.9	7
82	Revealing Fine Structures of the Retinal Receptive Field by Deep-Learning Networks. IEEE Transactions on Cybernetics, 2022, 52, 39-50.	9.5	6
83	Hybrid Coding of Spatiotemporal Spike Data for a Bio-Inspired Camera. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2837-2851.	8.3	6
84	Temporal Attentive Network for Action Recognition. , 2018, , .		5
85	Multiscale video sequence matching for near-duplicate detection and retrieval. Multimedia Tools and Applications, 2019, 78, 311-336.	3.9	5
86	2D LiDAR Map Prediction via Estimating Motion Flow with GRU. , 2019, , .		5
87	Learning Super-Resolution Reconstruction for High Temporal Resolution Spike Stream. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 16-29.	8.3	5
88	ESUR: A system for Events detection in SURveillance video. , 2010, , .		4
89	Selective eigenbackgrounds method for background subtraction in crowd scenes. , 2011, , .		4
90	CNUSVM: Hybrid CNN-Uneven SVM Model for Imbalanced Visual Learning. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
91	Multi-Pose Learning based Head-Shoulder Re-identification. , 2018, , .		4
92	Asynchronous Spatiotemporal Spike Metric for Event Cameras. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1742-1753.	11.3	4
93	Multi-camera Pedestrian Detection with Multi-view Bayesian Network Model. , 2012, , .		4
94	Multi-view gait recognition with incomplete training data. , 2014, , .		3
95	Performance Evaluation for AVS2 Scene Video Coding Techniques. , 2015, , .		3
96	High-Efficiency Coding for Shaking Surveillance Videos Based on Global Motion Compensation. , 2016, , .		3
97	Deep hashing with multi-task learning for large-scale instance-level vehicle search. , 2017, , .		3
98	PA-Search: Predicting units adaptive motion search for surveillance video coding. Computer Vision and Image Understanding, 2018, 170, 14-27.	4.7	3
99	Spike Coding: Towards Lossy Compression for Dynamic Vision Sensor. , 2019, , .		3
100	Model-Guided Multi-Path Knowledge Aggregation for Aerial Saliency Prediction. IEEE Transactions on Image Processing, 2020, 29, 7117-7127.	9.8	3
101	Robust and discriminative image authentication based on standard model feature. , 2012, , .		2
102	Image saliency estimation via random walk guided by informativeness and latent signal correlations. Signal Processing: Image Communication, 2015, 38, 3-14.	3.2	2
103	Detecting Rare Actions and Events from Surveillance Big Data with Bag of Dynamic Trajectories. , 2015, , .		2
104	Image Saliency Analysis Based on Retina Simulation. , 2017, , .		2
105	A fast skip and direction adaptive search algorithm for Sub-Pixel Motion Estimation on HEVC. , 2017, , .		2
106	Learning Local Feature Descriptor with Motion Attribute For Vision-based Localization. , 2019, , .		2
107	Video picture-in-picture detection using spatio-temporal slicing. , 2014, , .		1
108	Deep hashing with mixed supervised losses for image search. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
109	SFCM: Learn a Pooling Kernel for Weakly Supervised Object Localization. , 2018, , .		1
110	Siamese Network-Based All-Purpose-Tracker, a Model-Free Deep Learning Tool for Animal Behavioral Tracking. Frontiers in Behavioral Neuroscience, 2022, 16, 759943.	2.0	1
111	MPLBoost-based mixture model for effective human detection with Deformable Part Model. , 2013, , .		0
112	A refined object detection method based on HTM. , 2014, , .		0
113	Toward Efficient Simultaneous Detection and Segmentation. , 2018, , .		0
114	Skeleton-Based 3D Object Retrieval Using Retina-Like Feature Descriptor. IEEE Access, 2019, 7, 157341-157352.	4.2	0
115	Ultra-high Temporal Resolution Visual Reconstruction from a Fovea-like Spike Camera via Spiking Neuron Model. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, PP, 1-1.	13.9	0