

Song Wang

List of Publications by Year in descending order

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165
papers

5,295
citations

159358

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all docs

166
docs citations

166
times ranked

4411
citing authors

#	ARTICLE	IF	CITATIONS
1	A One-Stage Domain Adaptation Network With Image Alignment for Unsupervised Nighttime Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 58-72.	9.7	14
2	Transductive Zero-Shot Hashing for Multilabel Image Retrieval. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1673-1687.	7.2	7
3	Let There Be Light: Improved Traffic Surveillance via Detail Preserving Night-to-Day Transfer. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 8217-8226.	5.6	9
4	Two-Stage Selective Ensemble of CNN via Deep Tree Training for Medical Image Classification. IEEE Transactions on Cybernetics, 2022, 52, 9194-9207.	6.2	34
5	Deep Domain Adaptation Based Multi-Spectral Salient Object Detection. IEEE Transactions on Multimedia, 2022, 24, 128-140.	5.2	9
6	Variations in Dietary Patterns Defined by the Healthy Eating Index 2015 and Associations with Mortality: Findings from the Dietary Patterns Methods Project. Journal of Nutrition, 2022, 152, 796-804.	1.3	5
7	Deep Learning for Object Detection in Materials-Science Images: A tutorial. IEEE Signal Processing Magazine, 2022, 39, 78-88.	4.6	4
8	Multi-View Multi-Human Association With Deep Assignment Network. IEEE Transactions on Image Processing, 2022, 31, 1830-1840.	6.0	4
9	Self-relabeling for noise-tolerant retina vessel segmentation through label reliability estimation. BMC Medical Imaging, 2022, 22, 8.	1.4	3
10	ATLANTIS: A benchmark for semantic segmentation of waterbody images. Environmental Modelling and Software, 2022, 149, 105333.	1.9	21
11	Visual Attention Consistency for Human Attribute Recognition. International Journal of Computer Vision, 2022, 130, 1088-1106.	10.9	7
12	Video sketch: A middle-level representation for action recognition. Applied Intelligence, 2021, 51, 2589-2608.	3.3	17
13	Topological optimization of the DenseNet with pretrained-weights inheritance and genetic channel selection. Pattern Recognition, 2021, 109, 107608.	5.1	25
14	Effects of Image Degradation and Degradation Removal to CNN-Based Image Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1239-1253.	9.7	121
15	TTPLA: An Aerial-Image Dataset for Detection and Segmentation of Transmission Towers and Power Lines. Lecture Notes in Computer Science, 2021, , 601-618.	1.0	16
16	Transfer Learning for Optical and SAR Data Correspondence Identification With Limited Training Labels. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1545-1557.	2.3	10
17	Exploring the Effects of Blur and Deblurring to Visual Object Tracking. IEEE Transactions on Image Processing, 2021, 30, 1812-1824.	6.0	35
18	An enhanced binarization framework for degraded historical document images. Eurasip Journal on Image and Video Processing, 2021, 2021, .	1.7	33

#	ARTICLE	IF	CITATIONS
19	Multiple Human Tracking in Non-Specific Coverage with Wearable Cameras. , 2021, , .		2
20	Contour Transformer Network for One-Shot Segmentation of Anatomical Structures. IEEE Transactions on Medical Imaging, 2021, 40, 2672-2684.	5.4	14
21	Multiple Human Association and Tracking from Egocentric and Complementary Top Views. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	8
22	Shadow Removal by a Lightness-Guided Network With Training on Unpaired Data. IEEE Transactions on Image Processing, 2021, 30, 1853-1865.	6.0	45
23	Deep Poisoning: Towards Robust Image Data Sharing against Visual Disclosure. , 2021, , .		3
24	Structural Knowledge Distillation for Efficient Skeleton-Based Action Recognition. IEEE Transactions on Image Processing, 2021, 30, 2963-2976.	6.0	32
25	Self-supervised Multi-view Multi-Human Association and Tracking. , 2021, , .		18
26	JPGNet: Joint Predictive Filtering and Generative Network for Image Inpainting. , 2021, , .		11
27	Long-Tailed Multi-Label Visual Recognition by Collaborative Training on Uniform and Re-balanced Samplings. , 2021, , .		35
28	From Shadow Generation to Shadow Removal. , 2021, , .		43
29	Challenge-Response Authentication Using In-Air Handwriting Style Verification. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 51-64.	3.7	18
30	A Hybrid convolutional neural network for sketch recognition. Pattern Recognition Letters, 2020, 130, 73-82.	2.6	30
31	Degraded Image Semantic Segmentation With Dense-Gram Networks. IEEE Transactions on Image Processing, 2020, 29, 782-795.	6.0	33
32	Improved Deep Hashing With Soft Pairwise Similarity for Multi-Label Image Retrieval. IEEE Transactions on Multimedia, 2020, 22, 540-553.	5.2	103
33	Multi-Spectral Salient Object Detection by Adversarial Domain Adaptation. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 12023-12030.	3.6	15
34	Mutatt: Visual-Textual Mutual Guidance For Referring Expression Comprehension. , 2020, , .		1
35	Modeling Cross-View Interaction Consistency for Paired Egocentric Interaction Recognition. , 2020, , .		1
36	A Multi-Task Mean Teacher for Semi-Supervised Shadow Detection. , 2020, , .		82

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37	Dual-Branch Network With a Subtle Motion Detector for Microaction Recognition in Videos. IEEE Transactions on Image Processing, 2020, 29, 6194-6208.	6.0	3
38	Fast Learning of Spatially Regularized and Content Aware Correlation Filter for Visual Tracking. IEEE Transactions on Image Processing, 2020, 29, 7128-7140.	6.0	27
39	Deep Domain Adaptation With Differential Privacy. IEEE Transactions on Information Forensics and Security, 2020, 15, 3093-3106.	4.5	14
40	vtGraphNet: Learning weakly-supervised scene graph for complex visual grounding. Neurocomputing, 2020, 413, 51-60.	3.5	9
41	A New Method and Benchmark for Detecting Co-Saliency Within a Single Image. IEEE Transactions on Multimedia, 2020, 22, 3051-3063.	5.2	7
42	Weakly supervised easy-to-hard learning for object detection in image sequences. Neurocomputing, 2020, 398, 71-82.	3.5	9
43	Learning to Segment Anatomical Structures Accurately from One Exemplar. Lecture Notes in Computer Science, 2020, , 678-688.	1.0	5
44	Complementary-View Multiple Human Tracking. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 10917-10924.	3.6	18
45	Crystallographic Symmetry for Data Augmentation in Detecting Dendrite Cores. IS&T International Symposium on Electronic Imaging, 2020, 32, 248-1-248-7.	0.3	1
46	Homography estimation along short videos by recurrent convolutional regression network. Mathematical Foundations of Computing, 2020, 3, 125-140.	0.7	2
47	Complementary-View Co-Interest Person Detection. , 2020, , .		9
48	Human Identification and Interaction Detection in Cross-View Multi-Person Videos with Wearable Cameras. , 2020, , .		17
49	Recognizing Micro Actions in Videos: Learning Motion Details via Segment-Level Temporal Pyramid. , 2019, , .		3
50	A Framework for Design Identification on Heritage Objects. , 2019, , .		3
51	Dynamic Saliency-Aware Regularization for Correlation Filter-Based Object Tracking. IEEE Transactions on Image Processing, 2019, 28, 3232-3245.	6.0	90
52	An easy-to-hard learning strategy for within-image co-saliency detection. Neurocomputing, 2019, 358, 166-176.	3.5	13
53	Cross-View Person Identification Based on Confidence-Weighted Human Pose Matching. IEEE Transactions on Image Processing, 2019, 28, 3821-3835.	6.0	10
54	Domain Adaptation for Convolutional Neural Networks-Based Remote Sensing Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1324-1328.	1.4	83

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55	Visual Attention Consistency Under Image Transforms for Multi-Label Image Classification. , 2019, , .		143
56	Multi-Video Temporal Synchronization by Matching Pose Features of Shared Moving Subjects. , 2019, , .		4
57	Spatial Correspondence With Generative Adversarial Network: Learning Depth From Monocular Videos. , 2019, , .		14
58	Semantic Stereo Matching With Pyramid Cost Volumes. , 2019, , .		74
59	Deep Learning with Spatial Constraint for Tunnel Crack Detection. , 2019, , .		4
60	Small Object Sensitive Segmentation of Urban Street Scene With Spatial Adjacency Between Object Classes. IEEE Transactions on Image Processing, 2019, 28, 2643-2653.	6.0	34
61	DeepCrack: Learning Hierarchical Convolutional Features for Crack Detection. IEEE Transactions on Image Processing, 2019, 28, 1498-1512.	6.0	489
62	Automatic anatomy partitioning of the torso region on CT images by using a deep convolutional network with majority voting. , 2019, , .		5
63	Robust Gait Recognition by Integrating Inertial and RGBD Sensors. IEEE Transactions on Cybernetics, 2018, 48, 1136-1150.	6.2	77
64	Simultaneous Tracking and Registration in SiC/SiC Serial Section Images. Microscopy and Microanalysis, 2018, 24, 570-571.	0.2	1
65	Dating ancient paintings of Mogao Grottoes using deeply learnt visual codes. Science China Information Sciences, 2018, 61, 1.	2.7	14
66	Recognizing Actions in Wearable-Camera Videos by Training Classifiers on Fixed-Camera Videos. , 2018, , .		5
67	Multiple human tracking in wearable camera videos with informationless intervals. Pattern Recognition Letters, 2018, 112, 104-110.	2.6	5
68	Does Haze Removal Help CNN-Based Image Classification?. Lecture Notes in Computer Science, 2018, , 697-712.	1.0	47
69	Performance evaluation of 2D and 3D deep learning approaches for automatic segmentation of multiple organs on CT images. , 2018, , .		22
70	Visual-Attention-Based Background Modeling for Detecting Infrequently Moving Objects. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1208-1221.	5.6	35
71	Cross-Domain Recognition by Identifying Joint Subspaces of Source Domain and Target Domain. IEEE Transactions on Cybernetics, 2017, 47, 1090-1101.	6.2	25
72	Identifying designs from incomplete, fragmented cultural heritage objects by curve-pattern matching. Journal of Electronic Imaging, 2017, 26, 011022.	0.5	10

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73	Human attribute recognition by refining attention heat map. Pattern Recognition Letters, 2017, 94, 38-45.	2.6	37
74	Automated segmentation of 3D anatomical structures on CT images by using a deep convolutional network based on end-to-end learning approach. Proceedings of SPIE, 2017, , .	0.8	11
75	Are You Lying: Validating the Time-Location of Outdoor Images. Lecture Notes in Computer Science, 2017, , 103-123.	1.0	7
76	Deep learning of the sectional appearances of 3D CT images for anatomical structure segmentation based on an FCN voting method. Medical Physics, 2017, 44, 5221-5233.	1.6	137
77	Local Pattern Collocations Using Regional Co-occurrence Factorization. IEEE Transactions on Multimedia, 2017, 19, 492-505.	5.2	10
78	Learning View-Invariant Features for Person Identification in Temporally Synchronized Videos Taken by Wearable Cameras. , 2017, , .		20
79	Loosecut: Interactive image segmentation with loosely bounded boxes. , 2017, , .		19
80	Feature sampling strategies for action recognition. , 2017, , .		0
81	Lesion detection using T1-weighted MRI: A new approach based on functional cortical ROIs. , 2017, , .		1
82	Learning Dynamic Siamese Network for Visual Object Tracking. , 2017, , .		580
83	On-the-Fly Performance Evaluation of Large-Scale Fiber Tracking. IS&T International Symposium on Electronic Imaging, 2017, 2017, 142-147.	0.3	0
84	Correspondence Establishment in Statistical Shape Modeling: Optimization and Evaluation. , 2017, , 67-87.		2
85	Groupwise Tracking of Crowded Similar-Appearance Targets from Low-Continuity Image Sequences. , 2016, , .		15
86	Identifying Same Persons from Temporally Synchronized Videos Taken by Multiple Wearable Cameras. , 2016, , .		7
87	DriverTalk: Enabling targeted communication between drivers. , 2016, , .		0
88	Large-Scale Fiber Tracking Through Sparsely Sampled Image Sequences of Composite Materials. IEEE Transactions on Image Processing, 2016, 25, 4931-4942.	6.0	8
89	Three-Dimensional CT Image Segmentation by Combining 2D Fully Convolutional Network with 3D Majority Voting. Lecture Notes in Computer Science, 2016, , 111-120.	1.0	65
90	A fuzzy edge-weighted centroidal Voronoi tessellation model for image segmentation. Computers and Mathematics With Applications, 2016, 71, 2272-2284.	1.4	10

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91	Automated lesion detection on MRI scans using combined unsupervised and supervised methods. BMC Medical Imaging, 2015, 15, 50.	1.4	35
92	OmniView: A mobile collaborative system for assisting drivers with a map of surrounding traffic. , 2015, , .		7
93	Cross-domain recognition by identifying compact joint subspaces. , 2015, , .		1
94	Multiscale Superpixels and Supervoxels Based on Hierarchical Edge-Weighted Centroidal Voronoi Tessellation. , 2015, , .		6
95	Co-Interest Person Detection from Multiple Wearable Camera Videos. , 2015, , .		12
96	Combining local appearance and holistic view: Dual-Source Deep Neural Networks for human pose estimation. , 2015, , .		31
97	Discriminative regional color co-occurrence descriptor. , 2015, , .		3
98	Dynamic texture based smoke detection using Surfacelet transform and HMT model. Fire Safety Journal, 2015, 73, 91-101.	1.4	66
99	Topology-Preserving Multi-label Image Segmentation. , 2015, , .		4
100	Multiscale Superpixels and Supervoxels Based on Hierarchical Edge-Weighted Centroidal Voronoi Tessellation. IEEE Transactions on Image Processing, 2015, 24, 3834-3845.	6.0	23
101	Distance Transform Based Active Contour Approach for Document Image Rectification. , 2015, , .		4
102	Video-Based Action Detection Using Multiple Wearable Cameras. Lecture Notes in Computer Science, 2015, , 727-741.	1.0	2
103	Chronological classification of ancient paintings using appearance and shape features. Pattern Recognition Letters, 2014, 49, 146-154.	2.6	31
104	Edge-Weighted Centroid Voronoi Tessellation with Propagation of Consistency Constraint for 3D Grain Segmentation in Microscopic Superalloy Images. , 2014, , .		2
105	Automatic inpainting by removing fence-like structures in RGBD images. Machine Vision and Applications, 2014, 25, 1841-1858.	1.7	12
106	SideEye: Mobile assistant for blind spot monitoring. , 2014, , .		8
107	Graph-cut based interactive segmentation of 3D materials-science images. Machine Vision and Applications, 2014, 25, 1615-1629.	1.7	6
108	Pose Locality Constrained Representation for 3D Human Pose Reconstruction. Lecture Notes in Computer Science, 2014, , 174-188.	1.0	28

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109	Motion analysis for human interaction detection using optical flow on lattice superpixels. Wuhan University Journal of Natural Sciences, 2013, 18, 109-116.	0.2	2
110	3D Superalloy Grain Segmentation Using a Multichannel Edge-Weighted Centroidal Voronoi Tessellation Algorithm. IEEE Transactions on Image Processing, 2013, 22, 4123-4135.	6.0	2
111	A new criterion for choosing planar subproblems in MAP-MRF inference. Neurocomputing, 2013, 120, 453-460.	3.5	1
112	3D Materials Image Segmentation by 2D Propagation: A Graph-Cut Approach Considering Homomorphism. IEEE Transactions on Image Processing, 2013, 22, 5282-5293.	6.0	20
113	Distant human interaction detection from Kinect videos. , 2013, , .		2
114	A New Inference Framework for Dependency Networks. Communications in Statistics - Theory and Methods, 2013, 42, 56-75.	0.6	0
115	Handwritten text segmentation using average longest path algorithm. , 2013, , .		14
116	A Visual-Attention Model Using Earth Mover's Distance-Based Saliency Measurement and Nonlinear Feature Combination. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 314-328.	9.7	30
117	A graph-based algorithm for multi-target tracking with occlusion. , 2013, , .		4
118	Shape and image retrieval by organizing instances using population cues. , 2013, , .		2
119	Recognize Human Activities from Partially Observed Videos. , 2013, , .		137
120	Interactive grain image segmentation using graph cut algorithms. Proceedings of SPIE, 2013, , .	0.8	3
121	Superedge grouping for object localization by combining appearance and shape information. , 2012, , .		5
122	Image sequence segmentation combining global labeling and local relabeling and its application to materials science images. Proceedings of SPIE, 2012, , .	0.8	0
123	Person Identification Using Full-Body Motion and Anthropometric Biometrics from Kinect Videos. Lecture Notes in Computer Science, 2012, , 91-100.	1.0	42
124	Automatic localization of solid organs on 3D CT images by a collaborative majority voting decision based on ensemble learning. Computerized Medical Imaging and Graphics, 2012, 36, 304-313.	3.5	37
125	Recursive sum-product algorithm for generalized outer-planar graphs. Information Processing Letters, 2012, 112, 449-456.	0.4	0
126	CrackTree: Automatic crack detection from pavement images. Pattern Recognition Letters, 2012, 33, 227-238.	2.6	657

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127	Pre-organizing Shape Instances for Landmark-Based Shape Correspondence. International Journal of Computer Vision, 2012, 97, 210-228.	10.9	11
128	Grain Segmentation of 3D Superalloy Images Using Multichannel EWCVT under Human Annotation Constraints. Lecture Notes in Computer Science, 2012, , 244-257.	1.0	4
129	Landmark Sliding for 3D Shape Correspondence. , 2012, , 57-71.		4
130	Graph Cut Approaches for Materials Segmentation Preserving Shape, Appearance, and Topology. , 2012, , 147-152.		0
131	Object tracking via appearance modeling and sparse representation. Image and Vision Computing, 2011, 29, 787-796.	2.7	45
132	Graph-cut methods for grain boundary segmentation. Jom, 2011, 63, 49-51.	0.9	4
133	2D nonrigid partial shape matching using MCMC and contour subdivision. , 2011, , .		16
134	A Multichannel Edge-Weighted Centroidal Voronoi Tessellation algorithm for 3D super-alloy image segmentation. , 2011, , .		14
135	Image feature detection and matching in underwater conditions. , 2010, , .		17
136	Two perceptually motivated strategies for shape classification. , 2010, , .		44
137	Free-shape subwindow search for object localization. , 2010, , .		17
138	Feature matching in underwater environments using sparse linear combinations. , 2010, , .		2
139	Multiple Cortical Surface Correspondence Using Pairwise Shape Similarity. Lecture Notes in Computer Science, 2010, 13, 349-356.	1.0	8
140	Fast multiple shape correspondence by pre-organizing shape instances. , 2009, , .		10
141	3D open-surface shape correspondence for statistical shape modeling: Identifying topologically consistent landmarks. , 2009, , .		7
142	Imaging Multidimensional Therapeutically Relevant Circadian Relationships. International Journal of Biomedical Imaging, 2009, 2009, 1-8.	3.0	2
143	Fast multiple shape correspondence by pre-organizing shape instances. , 2009, , .		0
144	Globally Optimal Grouping for Symmetric Closed Boundaries by Combining Boundary and Region Information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 395-411.	9.7	41

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145	Evaluating Shape Correspondence for Statistical Shape Analysis: A Benchmark Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 2023-2039.	9.7	29
146	Open boundary capable edge grouping with feature maps. , 2008, , .		8
147	Edge Grouping Combining Boundary and Region Information. IEEE Transactions on Image Processing, 2007, 16, 2590-2606.	6.0	53
148	A Fast 3D Correspondence Method for Statistical Shape Modeling. , 2007, , .		23
149	New benchmark for image segmentation evaluation. Journal of Electronic Imaging, 2007, 16, 033011.	0.5	69
150	Global Detection of Salient Convex Boundaries. International Journal of Computer Vision, 2007, 71, 337-359.	10.9	17
151	A New Benchmark for Shape Correspondence Evaluation. , 2007, 10, 507-514.		2
152	Evaluating Edge Detection through Boundary Detection. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	39
153	Open-Curve Shape Correspondence Without Endpoint Correspondence. Lecture Notes in Computer Science, 2006, 9, 17-24.	1.0	4
154	Salient closed boundary extraction with ratio contour. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 546-561.	9.7	134
155	Convex grouping combining boundary and region information. , 2005, , .		15
156	Nonrigid Shape Correspondence Using Landmark Sliding, Insertion and Deletion. Lecture Notes in Computer Science, 2005, 8, 435-442.	1.0	10
157	Image segmentation with ratio cut. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 675-690-4.	9.7	215
158	Landmark-based shape deformation with topology-preserving constraints. , 2003, , .		6
159	Measurement based intelligent prefetch and cache technique in Web. , 0, , .		3
160	Intelligent proxy techniques in plasma physics laboratories. , 0, , .		0
161	Shape correspondence through landmark sliding. , 0, , .		16
162	From fragments to salient closed boundaries: an in-depth study. , 0, , .		4

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163	Globally Optimal Grouping for Symmetric Boundaries. , 0, , .		9
164	Image-Segmentation Evaluation From the Perspective of Salient Object Extraction. , 0, , .		25
165	Graph Cut Approaches for Materials Segmentation Preserving Shape, Appearance, and Topology. , 0, , 147-152.		0