Song Wang

List of Publications by Year
in descending order

Version: 2024-02-01

165 papers	5,295 citations	159358 30 h-index	138251 58 g-index
166 all docs	166 docs citations	166 times ranked	4411 citing authors

#	Article	IF	Citations
1	CrackTree: Automatic crack detection from pavement images. Pattern Recognition Letters, 2012, 33, 227-238.	2.6	657
2	Learning Dynamic Siamese Network for Visual Object Tracking. , 2017, , .		580
3	DeepCrack: Learning Hierarchical Convolutional Features for Crack Detection. IEEE Transactions on Image Processing, 2019, 28, 1498-1512.	6.0	489
4	Image segmentation with ratio cut. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 675-690-4.	9.7	215
5	Visual Attention Consistency Under Image Transforms for Multi-Label Image Classification. , 2019, , .		143
6	Recognize Human Activities from Partially Observed Videos. , 2013, , .		137
7	Deep learning of the sectional appearances of 3D <scp>CT</scp> images for anatomical structure segmentation based on an <scp>FCN</scp> voting method. Medical Physics, 2017, 44, 5221-5233.	1.6	137
8	Salient closed boundary extraction with ratio contour. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 546-561.	9.7	134
9	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
10	Improved Deep Hashing With Soft Pairwise Similarity for Multi-Label Image Retrieval. IEEE Transactions on Multimedia, 2020, 22, 540-553.	5.2	103
11	Dynamic Saliency-Aware Regularization for Correlation Filter-Based Object Tracking. IEEE Transactions on Image Processing, 2019, 28, 3232-3245.	6.0	90
12	Domain Adaptation for Convolutional Neural Networks-Based Remote Sensing Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1324-1328.	1.4	83
13	A Multi-Task Mean Teacher for Semi-Supervised Shadow Detection. , 2020, , .		82
14	Robust Gait Recognition by Integrating Inertial and RGBD Sensors. IEEE Transactions on Cybernetics, 2018, 48, 1136-1150.	6.2	77
15	Semantic Stereo Matching With Pyramid Cost Volumes. , 2019, , .		74
16	New benchmark for image segmentation evaluation. Journal of Electronic Imaging, 2007, 16, 033011.	0.5	69
17	Dynamic texture based smoke detection using Surfacelet transform and HMT model. Fire Safety Journal, 2015, 73, 91-101.	1.4	66
18	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

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19	Edge Grouping Combining Boundary and Region Information. IEEE Transactions on Image Processing, 2007, 16, 2590-2606.	6.0	53
20	Does Haze Removal Help CNN-Based Image Classification?. Lecture Notes in Computer Science, 2018, , 697-712.	1.0	47
21	Object tracking via appearance modeling and sparse representation. Image and Vision Computing, 2011, 29, 787-796.	2.7	45
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	Two perceptually motivated strategies for shape classification. , 2010, , .		44
24	From Shadow Generation to Shadow Removal. , 2021, , .		43
25	Person Identification Using Full-Body Motion and Anthropometric Biometrics from Kinect Videos. Lecture Notes in Computer Science, 2012, , 91-100.	1.0	42
26	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
27	Evaluating Edge Detection through Boundary Detection. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	39
28	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
29	Human attribute recognition by refining attention heat map. Pattern Recognition Letters, 2017, 94, 38-45.	2.6	37
30	Automated lesion detection on MRI scans using combined unsupervised and supervised methods. BMC Medical Imaging, 2015, 15, 50.	1.4	35
31	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
32	Exploring the Effects of Blur and Deblurring to Visual Object Tracking. IEEE Transactions on Image Processing, 2021, 30, 1812-1824.	6.0	35
33	Long-Tailed Multi-Label Visual Recognition by Collaborative Training on Uniform and Re-balanced Samplings. , 2021, , .		35
34	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
35	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
36	Degraded Image Semantic Segmentation With Dense-Gram Networks. IEEE Transactions on Image Processing, 2020, 29, 782-795.	6.0	33

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37	An enhanced binarization framework for degraded historical document images. Eurasip Journal on Image and Video Processing, 2021, 2021, .	1.7	33
38	Structural Knowledge Distillation for Efficient Skeleton-Based Action Recognition. IEEE Transactions on Image Processing, 2021, 30, 2963-2976.	6.0	32
39	Chronological classification of ancient paintings using appearance and shape features. Pattern Recognition Letters, 2014, 49, 146-154.	2.6	31
40	Combining local appearance and holistic view: Dual-Source Deep Neural Networks for human pose estimation. , 2015, , .		31
41	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
42	A Hybrid convolutional neural network for sketch recognition. Pattern Recognition Letters, 2020, 130, 73-82.	2.6	30
43	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
44	Pose Locality Constrained Representation for 3D Human Pose Reconstruction. Lecture Notes in Computer Science, 2014, , 174-188.	1.0	28
45	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
46	Image-Segmentation Evaluation From the Perspective of Salient Object Extraction. , 0, , .		25
47	Cross-Domain Recognition by Identifying Joint Subspaces of Source Domain and Target Domain. IEEE Transactions on Cybernetics, 2017, 47, 1090-1101.	6.2	25
48	Topological optimization of the DenseNet with pretrained-weights inheritance and genetic channel selection. Pattern Recognition, 2021, 109, 107608.	5.1	25
49	A Fast 3D Correspondence Method for Statistical Shape Modeling. , 2007, , .		23
50	Multiscale Superpixels and Supervoxels Based on Hierarchical Edge-Weighted Centroidal Voronoi Tessellation. IEEE Transactions on Image Processing, 2015, 24, 3834-3845.	6.0	23
51	Performance evaluation of 2D and 3D deep learning approaches for automatic segmentation of multiple organs on CT images. , 2018, , .		22
52	ATLANTIS: A benchmark for semantic segmentation of waterbody images. Environmental Modelling and Software, 2022, 149, 105333.	1.9	21
53	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
54	Learning View-Invariant Features for Person Identification in Temporally Synchronized Videos Taken by Wearable Cameras. , 2017, , .		20

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55	Loosecut: Interactive image segmentation with loosely bounded boxes. , 2017, , .		19
56	Challenge-Response Authentication Using In-Air Handwriting Style Verification. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 51-64.	3.7	18
57	Complementary-View Multiple Human Tracking. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 10917-10924.	3.6	18
58	Self-supervised Multi-view Multi-Human Association and Tracking. , 2021, , .		18
59	Global Detection of Salient Convex Boundaries. International Journal of Computer Vision, 2007, 71, 337-359.	10.9	17
60	Image feature detection and matching in underwater conditions. , 2010, , .		17
61	Free-shape subwindow search for object localization. , 2010, , .		17
62	Video sketch: A middle-level representation for action recognition. Applied Intelligence, 2021, 51, 2589-2608.	3.3	17
63	Human Identification and Interaction Detection in Cross-View Multi-Person Videos with Wearable Cameras. , 2020, , .		17
64	Shape correspondence through landmark sliding. , 0, , .		16
65	2D nonrigid partial shape matching using MCMC and contour subdivision. , 2011, , .		16
66	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
67	Convex grouping combining boundary and region information. , 2005, , .		15
68	Groupwise Tracking of Crowded Similar-Appearance Targets from Low-Continuity Image Sequences. , 2016, , .		15
69	Multi-Spectral Salient Object Detection by Adversarial Domain Adaptation. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 12023-12030.	3.6	15
70	A Multichannel Edge-Weighted Centroidal Voronoi Tessellation algorithm for 3D super-alloy image segmentation. , 2011, , .		14
71	Handwritten text segmentation using average longest path algorithm. , 2013, , .		14
72	Dating ancient paintings of Mogao Grottoes using deeply learnt visual codes. Science China Information Sciences, 2018, 61, 1.	2.7	14

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73	Spatial Correspondence With Generative Adversarial Network: Learning Depth From Monocular Videos. , 2019, , .		14
74	Deep Domain Adaptation With Differential Privacy. IEEE Transactions on Information Forensics and Security, 2020, 15, 3093-3106.	4.5	14
75	Contour Transformer Network for One-Shot Segmentation of Anatomical Structures. IEEE Transactions on Medical Imaging, 2021, 40, 2672-2684.	5.4	14
76	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
77	An easy-to-hard learning strategy for within-image co-saliency detection. Neurocomputing, 2019, 358, 166-176.	3.5	13
78	Automatic inpainting by removing fence-like structures in RGBD images. Machine Vision and Applications, 2014, 25, 1841-1858.	1.7	12
79	Co-Interest Person Detection from Multiple Wearable Camera Videos. , 2015, , .		12
80	Pre-organizing Shape Instances for Landmark-Based Shape Correspondence. International Journal of Computer Vision, 2012, 97, 210-228.	10.9	11
81	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
82	JPGNet: Joint Predictive Filtering and Generative Network for Image Inpainting. , 2021, , .		11
83	Fast multiple shape correspondence by pre-organizing shape instances. , 2009, , .		10
84	A fuzzy edge-weighted centroidal Voronoi tessellation model for image segmentation. Computers and Mathematics With Applications, 2016, 71, 2272-2284.	1.4	10
85	Identifying designs from incomplete, fragmented cultural heritage objects by curve-pattern matching. Journal of Electronic Imaging, 2017, 26, 011022.	0.5	10
86	Local Pattern Collocations Using Regional Co-occurrence Factorization. IEEE Transactions on Multimedia, 2017, 19, 492-505.	5.2	10
87	Cross-View Person Identification Based on Confidence-Weighted Human Pose Matching. IEEE Transactions on Image Processing, 2019, 28, 3821-3835.	6.0	10
88	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
89	Nonrigid Shape Correspondence Using Landmark Sliding, Insertion and Deletion. Lecture Notes in Computer Science, 2005, 8, 435-442.	1.0	10
90	Globally Optimal Grouping for Symmetric Boundaries. , 0, , .		9

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91	vtGraphNet: Learning weakly-supervised scene graph for complex visual grounding. Neurocomputing, 2020, 413, 51-60.	3.5	9
92	Weakly supervised easy-to-hard learning for object detection in image sequences. Neurocomputing, 2020, 398, 71-82.	3.5	9
93	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
94	Deep Domain Adaptation Based Multi-Spectral Salient Object Detection. IEEE Transactions on Multimedia, 2022, 24, 128-140.	5.2	9
95	Complementary-View Co-Interest Person Detection. , 2020, , .		9
96	Open boundary capable edge grouping with feature maps. , 2008, , .		8
97	SideEye: Mobile assistant for blind spot monitoring. , 2014, , .		8
98	Large-Scale Fiber Tracking Through Sparsely Sampled Image Sequences of Composite Materials. IEEE Transactions on Image Processing, 2016, 25, 4931-4942.	6.0	8
99	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
100	Multiple Cortical Surface Correspondence Using Pairwise Shape Similarity. Lecture Notes in Computer Science, 2010, 13, 349-356.	1.0	8
101	3D open-surface shape correspondence for statistical shape modeling: Identifying topologically consistent landmarks. , 2009, , .		7
102	OmniView: A mobile collaborative system for assisting drivers with a map of surrounding traffic. , 2015, , .		7
103	Identifying Same Persons from Temporally Synchronized Videos Taken by Multiple Wearable Cameras. , 2016, , .		7
104	Are You Lying: Validating the Time-Location ofÂOutdoor Images. Lecture Notes in Computer Science, 2017, , 103-123.	1.0	7
105	A New Method and Benchmark for Detecting Co-Saliency Within a Single Image. IEEE Transactions on Multimedia, 2020, 22, 3051-3063.	5.2	7
106	Transductive Zero-Shot Hashing for Multilabel Image Retrieval. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1673-1687.	7.2	7
107	Visual Attention Consistency for Human Attribute Recognition. International Journal of Computer Vision, 2022, 130, 1088-1106.	10.9	7
108	Landmark-based shape deformation with topology-preserving constraints. , 2003, , .		6

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109	Graph-cut based interactive segmentation of 3D materials-science images. Machine Vision and Applications, 2014, 25, 1615-1629.	1.7	6
110	Multiscale Superpixels and Supervoxels Based on Hierarchical Edge-Weighted Centroidal Voronoi Tessellation. , 2015, , .		6
111	Superedge grouping for object localization by combining appearance and shape information. , 2012, , .		5
112	Recognizing Actions in Wearable-Camera Videos by Training Classifiers on Fixed-Camera Videos. , 2018, , .		5
113	Multiple human tracking in wearable camera videos with informationless intervals. Pattern Recognition Letters, 2018, 112, 104-110.	2.6	5
114	Learning to Segment Anatomical Structures Accurately from One Exemplar. Lecture Notes in Computer Science, 2020, , 678-688.	1.0	5
115	Automatic anatomy partitioning of the torso region on CT images by using a deep convolutional network with majority voting. , 2019, , .		5
116	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
117	From fragments to salient closed boundaries: an in-depth study. , 0, , .		4
118	Graph-cut methods for grain boundary segmentation. Jom, 2011, 63, 49-51.	0.9	4
119	A graph-based algorithm for multi-target tracking with occlusion. , 2013, , .		4
120	Topology-Preserving Multi-label Image Segmentation. , 2015, , .		4
121	Distance Transform Based Active Contour Approach for Document Image Rectification. , 2015, , .		4
122	Multi-Video Temporal Synchronization by Matching Pose Features of Shared Moving Subjects. , 2019, , .		4
123	Deep Learning with Spatial Constraint for Tunnel Crack Detection. , 2019, , .		4
124	Open-Curve Shape Correspondence Without Endpoint Correspondence. Lecture Notes in Computer Science, 2006, 9, 17-24.	1.0	4
125	Grain Segmentation of 3D Superalloy Images Using Multichannel EWCVT under Human Annotation Constraints. Lecture Notes in Computer Science, 2012, , 244-257.	1.0	4
126	Landmark Sliding for 3D Shape Correspondence. , 2012, , 57-71.		4

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127	Deep Learning for Object Detection in Materials-Science Images: A tutorial. IEEE Signal Processing Magazine, 2022, 39, 78-88.	4.6	4
128	Multi-View Multi-Human Association With Deep Assignment Network. IEEE Transactions on Image Processing, 2022, 31, 1830-1840.	6.0	4
129	Measurement based intelligent prefetch and cache technique in Web. , 0, , .		3
130	Interactive grain image segmentation using graph cut algorithms. Proceedings of SPIE, 2013, , .	0.8	3
131	Discriminative regional color co-occurrence descriptor. , 2015, , .		3
132	Recognizing Micro Actions in Videos: Learning Motion Details via Segment-Level Temporal Pyramid. , 2019, , .		3
133	A Framework for Design Identification on Heritage Objects. , 2019, , .		3
134	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
135	Deep Poisoning: Towards Robust Image Data Sharing against Visual Disclosure. , 2021, , .		3
136	Self-relabeling for noise-tolerant retina vessel segmentation through label reliability estimation. BMC Medical Imaging, 2022, 22, 8.	1.4	3
137	Imaging Multidimensional Therapeutically Relevant Circadian Relationships. International Journal of Biomedical Imaging, 2009, 2009, 1-8.	3.0	2
138	Feature matching in underwater environments using sparse linear combinations. , 2010, , .		2
139	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
140	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
141	Distant human interaction detection from Kinect videos. , 2013, , .		2
142	Shape and image retrieval by organizing instances using population cues. , 2013, , .		2
143	Edge-Weighted Centroid Voronoi Tessellation with Propagation of Consistency Constraint for 3D Grain Segmentation in Microscopic Superalloy Images. , 2014, , .		2
144	Correspondence Establishment in Statistical Shape Modeling: Optimization and Evaluation. , 2017, , 67-87.		2

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145	Multiple Human Tracking in Non-Specific Coverage with Wearable Cameras. , 2021, , .		2
146	Video-Based Action Detection Using Multiple Wearable Cameras. Lecture Notes in Computer Science, 2015, , 727-741.	1.0	2
147	Homography estimation along short videos by recurrent convolutional regression network. Mathematical Foundations of Computing, 2020, 3, 125-140.	0.7	2
148	A New Benchmark for Shape Correspondence Evaluation. , 2007, 10, 507-514.		2
149	A new criterion for choosing planar subproblems in MAP-MRF inference. Neurocomputing, 2013, 120, 453-460.	3.5	1
150	Cross-domain recognition by identifying compact joint subspaces. , 2015, , .		1
151	Lesion detection using T1-weighted MRI: A new approach based on functional cortical ROIs. , 2017, , .		1
152	Simultaneous Tracking and Registration in SiC/SiC Serial Section Images. Microscopy and Microanalysis, 2018, 24, 570-571.	0.2	1
153	Mutatt: Visual-Textual Mutual Guidance For Referring Expression Comprehension. , 2020, , .		1
154	Modeling Cross-View Interaction Consistency for Paired Egocentric Interaction Recognition. , 2020, , .		1
155	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
156	Intelligent proxy techniques in plasma physics laboratories. , 0, , .		0
157	Image sequence segmentation combining global labeling and local relabeling and its application to materials science images. Proceedings of SPIE, 2012, , .	0.8	0
158	Recursive sumâ€“product algorithm for generalized outer-planar graphs. Information Processing Letters, 2012, 112, 449-456.	0.4	0
159	A New Inference Framework for Dependency Networks. Communications in Statistics - Theory and Methods, 2013, 42, 56-75.	0.6	0
160	DriverTalk: Enabling targeted communication between drivers. , 2016, , .		0
161	Feature sampling strategies for action recognition. , 2017, , .		0
162	On-the-Fly Performance Evaluation of Large-Scale Fiber Tracking. IS&T International Symposium on Electronic Imaging, 2017, 2017, 142-147.	0.3	0

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163	Graph Cut Approaches for Materials Segmentation Preserving Shape, Appearance, and Topology. , 2012, , 147-152.		0
164	Graph Cut Approaches for Materials Segmentation Preserving Shape, Appearance, and Topology. , 0, , 147-152.		0
165	Fast multiple shape correspondence by pre-organizing shape instances. , 2009, , .		0