

Xian-Hua Han

List of Publications by Year in descending order

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141
papers

2,247
citations

471477

17
h-index

501174

28
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148
all docs

148
docs citations

148
times ranked

1379
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutual Information-Based Graph Co-Attention Networks for Multimodal Prior-Guided Magnetic Resonance Imaging Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2512-2526.	8.3	9
2	Hyperspectral Image Reconstruction Using Multi-scale Fusion Learning. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-21.	4.3	2
3	Mixed Transformer U-Net for Medical Image Segmentation. , 2022, , .		89
4	Unsupervised Multispectral and Hyperspectral Image Fusion with Deep Spatial and Spectral Priors. Lecture Notes in Computer Science, 2021, , 31-45.	1.3	2
5	Spatial and Channel Attention Modulated Network for Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 3-17.	1.3	2
6	Medical Image Segmentation With Deep Atlas Prior. IEEE Transactions on Medical Imaging, 2021, 40, 3519-3530.	8.9	23
7	Cell Detection and Segmentation in Microscopy Images with Improved Mask R-CNN. Lecture Notes in Computer Science, 2021, , 58-70.	1.3	10
8	MCGKT-Net: Multi-level Context Gating Knowledge Transfer Network for Single Image Deraining. Lecture Notes in Computer Science, 2021, , 68-83.	1.3	0
9	Deep Unsupervised Fusion Learning for Hyperspectral Image Super Resolution. Sensors, 2021, 21, 2348.	3.8	10
10	PAResSeg: A phase attention residual network for liver tumor segmentation from multiphase CT images. Medical Physics, 2021, 48, 3752-3766.	3.0	30
11	Graph-Based Pyramid Global Context Reasoning With a Saliency-Aware Projection for Covid-19 Lung Infections Segmentation. , 2021, , .		13
12	Patch-Free 3D Medical Image Segmentation Driven by Super-Resolution Technique and Self-Supervised Guidance. Lecture Notes in Computer Science, 2021, , 131-141.	1.3	9
13	Genotype-Guided Radiomics Signatures for Recurrence Prediction of Non-Small Cell Lung Cancer. IEEE Access, 2021, 9, 90244-90254.	4.2	15
14	Automatic Detection and Segmentation of Liver Tumors in Multi- phase CT Images by Phase Attention Mask R-CNN. , 2021, , .		11
15	Lightweight Multi-Scale Context Aggregation Deraining Network With Artifact-Attenuating Pooling and Activation Functions. IEEE Access, 2021, 9, 146948-146958.	4.2	2
16	Blind Image Super Resolution Using Deep Unsupervised Learning. Electronics (Switzerland), 2021, 10, 2591.	3.1	4
17	Improved Genotype-Guided Deep Radiomics Signatures for Recurrence Prediction of Non-Small Cell Lung Cancer. , 2021, 2021, 3561-3564.		4
18	Image super-resolution based on two-level residual learning CNN. Multimedia Tools and Applications, 2020, 79, 4831-4846.	3.9	7

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19	Tensor-based sparse representations of multi-phase medical images for classification of focal liver lesions. Pattern Recognition Letters, 2020, 130, 207-215.	4.2	25
20	An end-to-end CNN and LSTM network with 3D anchors for mitotic cell detection in 4D microscopic images and its parallel implementation on multiple GPUs. Neural Computing and Applications, 2020, 32, 5669-5679.	5.6	2
21	WNET: An End-to-End Atlas-Guided and Boundary-Enhanced Network for Medical Image Segmentation. , 2020, , .		3
22	Semi-Supervised Learning for Semantic Segmentation of Emphysema With Partial Annotations. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2327-2336.	6.3	12
23	UNet 3+: A Full-Scale Connected UNet for Medical Image Segmentation. , 2020, , .		929
24	Medical Image Classification Using Deep Learning. Intelligent Systems Reference Library, 2020, , 33-51.	1.2	48
25	Residual Sparse Autoencoders for Unsupervised Feature Learning and Its Application to HEp-2 Cell Staining Pattern Recognition. Intelligent Systems Reference Library, 2020, , 181-199.	1.2	0
26	Hyperspectral Reconstruction with Redundant Camera Spectral Sensitivity Functions. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-15.	4.3	1
27	CasCRNN-GL-Net: cascaded convolutional and recurrent neural networks with global and local pathways for classification of focal liver lesions in multi-phase CT images. Communications in Information and Systems, 2020, 20, 415-442.	0.5	1
28	A Dual-Attention Dilated Residual Network for Liver Lesion Classification and Localization on CT Images. , 2019, , .		14
29	VesselNet: A deep convolutional neural network with multi pathways for robust hepatic vessel segmentation. Computerized Medical Imaging and Graphics, 2019, 75, 74-83.	5.8	62
30	Multi-Level and Multi-Scale Spatial and Spectral Fusion CNN for Hyperspectral Image Super-Resolution. , 2019, , .		39
31	Automatic Segmentation of the Paranasal Sinus from Computer Tomography Images Using a Probabilistic Atlas and a Fully Convolutional Network. , 2019, 2019, 2789-2792.		7
32	Residual Component Estimating CNN for Image Super-Resolution. , 2019, , .		13
33	Spectral Representation via Data-Guided Sparsity for Hyperspectral Image Super-Resolution. Sensors, 2019, 19, 5401.	3.8	1
34	Deep Residual Network of Spectral and Spatial Fusion for Hyperspectral Image Super-Resolution. , 2019, , .		14
35	Three-Dimensional Embryonic Image Segmentation and Registration Based on Shape Index and Ellipsoid-Fitting Method. Journal of Computational Biology, 2019, 26, 128-142.	1.6	3
36	Classification and Quantification of Emphysema Using a Multi-Scale Residual Network. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2526-2536.	6.3	21

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37	Adaptive Semi-Supervised Feature Selection for Cross-Modal Retrieval. IEEE Transactions on Multimedia, 2019, 21, 1276-1288.	7.2	107
38	Semi-supervised Segmentation of Liver Using Adversarial Learning with Deep Atlas Prior. Lecture Notes in Computer Science, 2019, , 148-156.	1.3	47
39	A Cascade Attention Network for Liver Lesion Classification in Weakly-Labeled Multi-phase CT Images. Lecture Notes in Computer Science, 2019, , 129-138.	1.3	5
40	Automatic Liver Segmentation Using U-Net with Wasserstein GANs. Journal of Image and Graphics(United Kingdom), 2019, 7, 94-101.	3.2	12
41	Texture-specific bag of visual words model and spatial cone matching-based method for the retrieval of focal liver lesions using multiphase contrast-enhanced CT images. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 151-164.	2.8	40
42	Multi-scale Residual Network with Two Channels of Raw CT Image and Its Differential Excitation Component for Emphysema Classification. Lecture Notes in Computer Science, 2018, , 38-46.	1.3	1
43	Combining Convolutional and Recurrent Neural Networks for Classification of Focal Liver Lesions in Multi-phase CT Images. Lecture Notes in Computer Science, 2018, , 666-675.	1.3	39
44	Self-Similarity Constrained Sparse Representation for Hyperspectral Image Super-Resolution. IEEE Transactions on Image Processing, 2018, 27, 5625-5637.	9.8	64
45	Generic and Specific Impressions Estimation and Their Application to KANSEI-Based Clothing Fabric Image Retrieval. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1854024.	1.2	4
46	Detection of Liver Tumor Candidates from CT Images Using Deep Convolutional Neural Networks. Smart Innovation, Systems and Technologies, 2018, , 140-145.	0.6	9
47	Automatic and Robust Vessel Segmentation in CT Volumes Using Submodular Constrained Graph. Smart Innovation, Systems and Technologies, 2018, , 57-66.	0.6	2
48	Residual Convolutional Neural Networks with Global and Local Pathways for Classification of Focal Liver Lesions. Lecture Notes in Computer Science, 2018, , 617-628.	1.3	10
49	Automatic Liver Segmentation Using U-Net with Wasserstein GANs. Journal of Image and Graphics(United Kingdom), 2018, 6, 152-159.	3.2	31
50	Self-taught Learning with Residual Sparse Autoencoders for HEp-2 Cell Staining Pattern Recognition. Lecture Notes in Computer Science, 2018, , 134-142.	1.3	0
51	Hyperspectral Image Classification Using Nonnegative Sparse Spectral Representation and Spatial Regularization. Lecture Notes in Computer Science, 2018, , 180-189.	1.3	0
52	Phenotype Analysis Method for Identification of Gene Functions Involved in Asymmetric Division of <i>Caenorhabditis elegans</i> . Journal of Computational Biology, 2017, 24, 436-446.	1.6	2
53	Co-occurrence context of the data-driven quantized local ternary patterns for visual recognition. IPSJ Transactions on Computer Vision and Applications, 2017, 9, .	4.4	0
54	HEp-2 staining pattern recognition using stacked fisher network for encoding weber local descriptor. Pattern Recognition, 2017, 63, 542-550.	8.1	5

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55	Joint weber-based rotation invariant uniform local ternary pattern for classification of pulmonary emphysema in CT images. , 2017, , .		10
56	Generalized Aggregation of Sparse Coded Multi-Spectra for Satellite Scene Classification. ISPRS International Journal of Geo-Information, 2017, 6, 175.	2.9	4
57	An Improved Random Walker with Bayes Model for Volumetric Medical Image Segmentation. Journal of Healthcare Engineering, 2017, 2017, 1-11.	1.9	10
58	Simultaneous Segmentation of Multiple Organs Using Random Walks. Journal of Information Processing, 2016, 24, 320-329.	0.4	11
59	SIFT-based multi-frame super resolution for 250 million pixel images. , 2016, , .		1
60	A principal component analysis based method to automatically inspect wear of throw-away tips. Journal of Intelligent and Fuzzy Systems, 2016, 31, 903-913.	1.4	1
61	Food recognition by combined bags of color features and texture features. , 2016, , .		19
62	Bag of temporal co-occurrence words for retrieval of focal liver lesions using 3D multiphase contrast-enhanced CT images. , 2016, , .		9
63	Dual-band polarization angle independent 90° polarization rotator using chiral metamaterial. IEICE Electronics Express, 2016, 13, 20160583-20160583.	0.8	4
64	A framework for probabilistic atlas-based organ segmentation. , 2016, , .		0
65	Integration of spatial and orientation contexts in local ternary patterns for HEP-2 cell classification. Pattern Recognition Letters, 2016, 82, 23-27.	4.2	11
66	Combined Density, Texture and Shape Features of Multi-phase Contrast-Enhanced CT Images for CBIR of Focal Liver Lesions: A Preliminary Study. Smart Innovation, Systems and Technologies, 2016, , 215-224.	0.6	8
67	Bayesian Model for Liver Tumor Enhancement. Smart Innovation, Systems and Technologies, 2016, , 227-235.	0.6	2
68	Non-rigid image registration with anatomical structure constraint for assessing locoregional therapy of hepatocellular carcinoma. Computerized Medical Imaging and Graphics, 2015, 45, 75-83.	5.8	10
69	Independent Component Analysis-based effective prediction of O-linked glycosylation sites in protein by Support Vector Machine. , 2015, , .		0
70	A robust registration method using Huber ICP and low rank and sparse decomposition. , 2015, , .		0
71	Discriminant statistical analysis of local facial geometrical regions. , 2015, , .		3
72	Nuclear detection in 4D microscope images using enhanced probability map of top-ranked intensity-ordered descriptors. , 2015, , .		0

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73	Interactive segmentation and visualization system for medical images on mobile devices. Journal of Advanced Simulation in Science and Engineering, 2015, 2, 96-107.	0.2	4
74	Automatic inspection of throw-away tips based on principal component analysis. , 2015, , .		0
75	Two-step learning based super resolution and its application to 3D medical volumes. , 2015, , .		1
76	Generic and specific impression estimation of clothing fabric images based on machine learning. , 2015, , .		1
77	A knowledge-based interactive liver segmentation using random walks. , 2015, , .		4
78	Liver segmentation using superpixel-based graph cuts and restricted regions of shape constrains. , 2015, , .		16
79	Statistical Shape Model of the Liver and Its Application to Computer-Aided Diagnosis of Liver Cirrhosis. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2015, 190, 37-45.	0.4	6
80	Segmentation of liver and spleen based on computational anatomy models. Computers in Biology and Medicine, 2015, 67, 146-160.	7.0	43
81	High-Order Statistics of Weber Local Descriptors for Image Representation. IEEE Transactions on Cybernetics, 2015, 45, 1180-1193.	9.5	28
82	Alignment-Free and High-Frequency Compensation in Face Hallucination. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	3
83	Hybrid Aggregation of Sparse Coded Descriptors for Food Recognition. , 2014, , .		6
84	Robust isotropic super-resolution by maximizing a Laplace posterior for MRI volumes. Proceedings of SPIE, 2014, , .	0.8	0
85	Sparse and Low Rank Matrix Decomposition Based Local Morphological Analysis and Its Application to Diagnosis of Cirrhosis Livers. , 2014, , .		0
86	High-Order Statistics of Microtexton for HEp-2 Staining Pattern Classification. IEEE Transactions on Biomedical Engineering, 2014, 61, 2223-2234.	4.2	17
87	Sparse and Low-Rank Matrix Decomposition for Local Morphological Analysis to Diagnose Cirrhosis. IEICE Transactions on Information and Systems, 2014, E97.D, 3210-3221.	0.7	1
88	Generalized N-dimensional independent component analysis and its application to multiple feature selection and fusion for image classification. Neurocomputing, 2013, 103, 186-197.	5.9	10
89	Sparse model in hierarchic spatial structure for food image recognition. , 2013, , .		3
90	Food recognition using Codebook-based model with sparse-coding. , 2013, , .		1

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91	Global and local features for accurate impression estimation of cloth fabric images. , 2013, , .		4
92	Gradient-based edge preserving interpolation and its application to super-resolution. Electronics and Communications in Japan, 2013, 96, 43-50.	0.5	0
93	Robust local ternary patterns for texture categorization. , 2013, , .		7
94	A preliminary study on multi-touch based medical image analysis and visualization system. , 2013, , .		1
95	Automatic prediction of trait anxiety degree using recognition rates of facial emotions. , 2013, , .		2
96	Quantifying stage progress of cirrhotic livers based on statistic shape models. , 2013, , .		0
97	High frequency compensated face hallucination with total variation constraint. , 2013, , .		0
98	Pilot study of applying shape analysis to liver cirrhosis diagnosis. , 2013, , .		3
99	Adaptive color discrimination for image classification. , 2013, , .		0
100	Nonrigid registration for evaluating locoregional therapy of hepatocellular carcinoma. , 2013, , .		1
101	Sparse dictionary representation and propagation for MRI volume super-resolution. Proceedings of SPIE, 2013, , .	0.8	0
102	Computer-Aided Diagnosis and Quantification of Cirrhotic Livers Based on Morphological Analysis and Machine Learning. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-8.	1.3	18
103	A Morphologic Analysis of Cirrhotic Liver in CT Images. Lecture Notes in Computer Science, 2013, , 494-501.	1.3	2
104	Statistical Shape Model of the Liver and Its Application to Computer Aided Diagnosis of Liver Cirrhosis. IEJ Transactions on Electronics, Information and Systems, 2013, 133, 2037-2043.	0.2	0
105	View-Based Object Recognition Using ND Tensor Supervised Neighborhood Embedding. IEICE Transactions on Information and Systems, 2012, E95-D, 835-843.	0.7	1
106	Face Recognition Using Multilinear Manifold Analysis of Local Descriptors. Lecture Notes in Computer Science, 2012, , 734-742.	1.3	0
107	Efficient shape representation and statistical shape modeling of the liver using spherical harmonic functions (SPHARM). , 2012, , .		3
108	Multilinear Supervised Neighborhood Embedding of a Local Descriptor Tensor for Scene/Object Recognition. IEEE Transactions on Image Processing, 2012, 21, 1314-1326.	9.8	18

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109	Fast Example-Based Super-Resolution Using Manifold Learning. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1768-1773.	0.2	0
110	High frequency compensated face hallucination. , 2011, , .		5
111	Independent component analysis of color SIFT for Image Classification. , 2011, , .		0
112	Canonical correlation analysis of local feature set for view-based object recognition. , 2011, , .		0
113	Multilinear Supervised Neighborhood Embedding with Local Descriptor Tensor for Face Recognition. IEICE Transactions on Information and Systems, 2011, E94-D, 158-161.	0.7	3
114	Global Selection vs Local Ordering of Color SIFT Independent Components for Object/Scene Classification. IEICE Transactions on Information and Systems, 2011, E94-D, 1800-1808.	0.7	2
115	A robust method based on ICA and mixture sparsity for edge detection in medical images. Signal, Image and Video Processing, 2011, 5, 39-47.	2.7	8
116	Biomedical Imaging Modality Classification Using Combined Visual Features and Textual Terms. International Journal of Biomedical Imaging, 2011, 2011, 1-7.	3.9	11
117	Gradient Based Edge Preserving Interpolation and Its Application to Super-Resolution. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 1901-1906.	0.2	0
118	Color Independent Components Based SIFT Descriptors for Object/Scene Classification. IEICE Transactions on Information and Systems, 2010, E93-D, 2577-2586.	0.7	16
119	Tensor-based subspace learning and its applications in multi-pose face synthesis. Neurocomputing, 2010, 73, 2727-2736.	5.9	8
120	Adaptive Color Independent Components Based SIFT Descriptors for Image Classification. , 2010, , .		8
121	Image recognition by learned linear subspace of combined bag-of-features and low-level features. , 2010, , .		5
122	Image Categorization by Learned Nonlinear Subspace of Combined Visual-Words and Low-Level Features. , 2010, , .		1
123	Image Categorization with PCA-SICEF. , 2009, , .		0
124	Image Categorization by Learned PCA Subspace of Combined Visual-words and Low-level Features. , 2009, , .		3
125	Principal Component Analysis for Prediction of O-Linked Glycosylation Sites in Protein by Multi-Layered Neural Networks. , 2009, , .		3
126	Synthesis of multiple pose facial images using tensor-based subspace learning method. , 2009, , .		0

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127	Hierarchical Super-Resolution Approach for Expanding Image with High Magnification. , 2009, , .		0
128	Supervised Local Subspace Learning for Region Segmentation and Categorization in High-Resolution Satellite Images. Lecture Notes in Computer Science, 2009, , 226-233.	1.3	1
129	Edge detection algorithm based on ICA-domain shrinkage in noisy images. Science in China Series F: Information Sciences, 2008, 51, 1349-1359.	1.1	4
130	A supervised nonlinear neighborhood embedding of color histogram for image indexing. , 2008, , .		2
131	Robust Face Recognition Based on Modified ICA without Training Sample of Test Subjects. , 2008, , .		1
132	Region-Based Segmentation and Auto-Annotation for Color Images. , 2008, , .		3
133	Enhancement and detection of lung nodules with Multiscale filters in CT images. , 2008, , .		10
134	Classification of High-Resolution Satellite Images Using Supervised Locality Preserving Projections. Lecture Notes in Computer Science, 2008, , 149-156.	1.3	5
135	An ICA Based Noise Reduction for PET Reconstructed Images. , 2007, , .		1
136	ICA-Based noise reduction for PET Sinogram-Domain Images. , 2007, , .		1
137	Application of Poisson Image Denoising by ICA to Penumbral Imaging. , 2007, , .		0
138	Independent Component Analysis for Removing X-ray Scatter in X-ray Images. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	2
139	ICA domain filtering for reduction of noise in x-ray images. , 2006, 6144, 2000.		0
140	Independent component analysis based filtering for penumbral imaging. Review of Scientific Instruments, 2004, 75, 3977-3979.	1.3	7
141	Hyperspectral Image Super-Resolution Using Optimization and DCNN-Based Methods. , 0, , .		1