

Mingyi He

List of Publications by Year in descending order

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Version: 2024-02-01

170
papers

2,282
citations

361296

20
h-index

302012

39
g-index

170
all docs

170
docs citations

170
times ranked

1982
citing authors

#	ARTICLE	IF	CITATIONS
1	Monocular human pose estimation: A survey of deep learning-based methods. Computer Vision and Image Understanding, 2020, 192, 102897.	3.0	252
2	Multi-scale 3D deep convolutional neural network for hyperspectral image classification. , 2017, , .		225
3	A Simple Prior-Free Method for Non-rigid Structure-from-Motion Factorization. International Journal of Computer Vision, 2014, 107, 101-122.	10.9	167
4	Video summarization via minimum sparse reconstruction. Pattern Recognition, 2015, 48, 522-533.	5.1	153
5	Band Selection Based on Feature Weighting for Classification of Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 156-159.	1.4	146
6	Monocular depth estimation with hierarchical fusion of dilated CNNs and soft-weighted-sum inference. Pattern Recognition, 2018, 83, 328-339.	5.1	101
7	Depth and surface normal estimation from monocular images using regression on deep features and hierarchical CRFs. , 2015, , .		83
8	Spatial Purity Based Endmember Extraction for Spectral Mixture Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3434-3445.	2.7	79
9	Hyperspectral Image Resolution Enhancement Using High-Resolution Multispectral Image Based on Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6574-6583.	2.7	63
10	Multi-spectral and hyperspectral image fusion using 3-D wavelet transform. Journal of Electronics, 2007, 24, 218-224.	0.2	49
11	Multifocus image fusion based on redundant wavelet transform. IET Image Processing, 2010, 4, 283.	1.4	44
12	Classification Based on 3-D DWT and Decision Fusion for Hyperspectral Image Analysis. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 173-177.	1.4	44
13	NLCA-Net: a non-local context attention network for stereo matching. APSIPA Transactions on Signal and Information Processing, 2020, 9, .	2.6	42
14	Skeleton based action recognition using translation-scale invariant image mapping and multi-scale deep CNN. , 2017, , .		40
15	A Top-Down Approach for Video Summarization. ACM Transactions on Multimedia Computing, Communications and Applications, 2014, 11, 1-21.	3.0	37
16	Indentation technique for estimating the fracture toughness of 7050 aluminum alloy with the Berkovich indenter. Materials & Design, 2012, 40, 176-184.	5.1	33
17	Compressed Sensing Reconstruction of Hyperspectral Images Based on Spectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1266-1284.	2.3	32
18	Improving Spatial-“Spectral Endmember Extraction in the Presence of Anomalous Ground Objects. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4210-4222.	2.7	29

#	ARTICLE	IF	CITATIONS
19	3D skeleton based action recognition by video-domain translation-scale invariant mapping and multi-scale dilated CNN. Multimedia Tools and Applications, 2018, 77, 22901-22921.	2.6	29
20	Orthogonal Nonnegative Matrix Factorization Combining Multiple Features for Spectral Spatial Dimensionality Reduction of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4272-4286.	2.7	27
21	Video Summarization with Global and Local Features. , 2012, , .		25
22	Projective Multiview Structure and Motion from Element-Wise Factorization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2238-2251.	9.7	25
23	Bidirectional Guided Attention Network for 3-D Semantic Detection of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6138-6153.	2.7	25
24	Equivalent-Sparse Unmixing Through Spatial and Spectral Constrained Endmember Selection From an Image-Derived Spectral Library. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2665-2675.	2.3	22
25	$L_{2,0}$ constrained sparse dictionary selection for video summarization. , 2014, , .		18
26	Multi-scale Cross-form Pyramid Network for Stereo Matching. , 2019, , .		18
27	Mixture Analysis by Multichannel Hopfield Neural Network. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 455-459.	1.4	17
28	Optimizing Hopfield Neural Network for Spectral Mixture Unmixing on GPU Platform. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 818-822.	1.4	17
29	SUNet: Symmetric Undistortion Network for Rolling Shutter Correction. , 2021, , .		17
30	Image Feature Detection and Matching Based on SUSAN Method. , 0, , .		16
31	VRNet: Learning the Rectified Virtual Corresponding Points for 3D Point Cloud Registration. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4997-5010.	5.6	15
32	A simple prior-free method for non-rigid structure-from-motion factorization. , 2012, , .		14
33	Hyperspectral and multispectral image fusion using CNMF with minimum endmember simplex volume and abundance sparsity constraints. , 2015, , .		13
34	Element-Wise Factorization for N-View Projective Reconstruction. Lecture Notes in Computer Science, 2010, , 396-409.	1.0	13
35	Hyperspectral image classification based on deep stacking network. , 2016, , .		12
36	RS-DPSNet: Deep Plane Sweep Network for Rolling Shutter Stereo Images. IEEE Signal Processing Letters, 2021, 28, 1550-1554.	2.1	12

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37	Robust lane detection based on gradient direction. , 2011, , .		11
38	Feature Selection for Hyperspectral Data Classification Using Double Parallel Feedforward Neural Networks. Lecture Notes in Computer Science, 2005, , 58-66.	1.0	11
39	Dense non-rigid structure-from-motion made easy " A spatial-temporal smoothness based solution. , 2017, , .		10
40	A fast training algorithm for support vector machine via boundary sample selection. , 2003, , .		9
41	Feature selection using Double Parallel Feedforward Neural Networks and Particle Swarm Optimization. , 2007, , .		9
42	Integrated deep and shallow networks for salient object detection. , 2017, , .		8
43	Lossless compression of hyperspectral images based on 3D context prediction. , 2008, , .		7
44	Sharp curve lane boundaries projective model and detection. , 2012, , .		7
45	An accurate SVM-based classification approach for hyperspectral image classification. , 2013, , .		7
46	Hyperspectral image classification based on iterative Support Vector Machine by integrating spatial-spectral information. , 2013, , .		7
47	Convolutional Neural Network with PCA and Batch Normalization for Hyperspectral Image Classification. , 2019, , .		7
48	Patch attention network with generative adversarial model for semi-supervised binocular disparity prediction. Visual Computer, 2022, 38, 77-93.	2.5	7
49	A New Adaptive Algorithm for Despeckling SAR Images Based on Contourlet Transform. , 2006, , .		6
50	Hyperspectral and multispectral image fusion using collaborative representation with local adaptive dictionary pair. , 2016, , .		6
51	A Hybrid Subpixel Mapping Framework for Hyperspectral Images Using Collaborative Representation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5073-5086.	2.3	6
52	A novel face description by local multi-channel Gabor histogram sequence binary pattern. , 2008, , .		5
53	Hopfield neural network based mixed pixel unmixing for multispectral data. Proceedings of SPIE, 2008, , .	0.8	5
54	Dimension Reduction by Random Projection for Endmember Extraction. , 2010, , .		5

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55	Mesh simplification algorithm based on absolute curvature-weighted quadric error metrics. , 2010, , .		5
56	Neighborhood preserving Nonnegative Matrix Factorization for spectral mixture analysis. , 2013, , .		5
57	Unsupervised Spectral Mixture Analysis of Highly Mixed Data With Hopfield Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1922-1935.	2.3	5
58	Multi-scale salient object detection with pyramid spatial pooling. , 2017, , .		5
59	Foreword to the Special Issue on Hyperspectral Remote Sensing and Imaging Spectroscopy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1019-1021.	2.3	5
60	Him-Net: A New Neural Network Approach for SAR and Optical Image Template Matching¹. , 2021, , .		5
61	Study of Detection Technique Simulation of High Resolution Radar Based on BP Neural Network. , 2007, , .		4
62	Gradient-threshold Edge Detection based on Perceptually Adaptive Threshold Selection. , 2008, , .		4
63	A New Canny-Based Edge Detector for SAR Image. , 2008, , .		4
64	Spectral-spatial Endmember Extraction by Singular Value Decomposition for AVIRIS data. , 2009, , .		4
65	Comparative analysis of signal processing in brain computer interface. , 2009, , .		4
66	Minimum endmember-wise distance constrained Nonnegative Matrix Factorization for Spectral Mixture Analysis of hyperspectral images. , 2011, , .		4
67	Unmixing approach for hyperspectral data resolution enhancement using high resolution multispectral image. , 2012, , .		4
68	Globally maximizing, locally minimizing: Regularized Nonnegative Matrix Factorization for hyperspectral data feature extraction. , 2012, , .		4
69	Unsupervised hyperspectral image classification algorithm by integrating spatial-spectral information. , 2012, , .		4
70	Hyperspectral image classification based on spectra derivative features and locality preserving analysis. , 2014, , .		4
71	Hyperspectral and multispectral image fusion based on constrained CNMF unmixing. , 2015, , .		4
72	Foreword to the Special Issue on Hyperspectral Remote Sensing and Imaging Spectroscopy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3904-3908.	2.3	4

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73	Skeleton boxes: Solving skeleton based action detection with a single deep convolutional neural network. , 2017, , .		4
74	A Generalized Chirp-Scaling Algorithm for Geosynchronous Orbit SAR Staring Observations. Sensors, 2017, 17, 1058.	2.1	4
75	MSDC-Net: Multi-Scale Dense and Contextual Networks for Stereo Matching. , 2019, , .		4
76	<title>High-dimensional multispectral image fusion: classification by neural network</title>. , 2003, 4898, 36.		3
77	Texture-based Segmentation of High Resolution SAR Images Using Contourlet Transform and Mean Shift. , 2006, , .		3
78	An Approximate Finite Ridgelet Transform Algorithm for SAR Image Segmentation. , 2006, , .		3
79	An Adaptive Implementation of the Kernel-Based Object Tracking Method. , 0, , .		3
80	A Level Set Method for Image Segmentation by Integrating Channel Anisotropic Diffusion Information. , 2007, , .		3
81	Smooth Approximation of L_infinity-Norm for Multi-view Geometry. , 2009, , .		3
82	A Robust Feature-Based Camera Motion Estimation Method. , 2010, , .		3
83	Bayesian fusion of hyperspectral and multispectral images using Gaussian scale mixture prior. , 2011, , .		3
84	Improving hyperspectral image classification accuracy using Iterative SVM with spatial-spectral information. , 2013, , .		3
85	Unmixing approach for hyperspectral data resolution enhancement using high resolution multispectral image with unknown spectral response function. , 2013, , .		3
86	Hyperspectral and multispectral image fusion using local spatial-spectral dictionary pair. , 2017, , .		3
87	Machine vision based physical fitness measurement with human posture recognition and skeletal data smoothing. , 2017, , .		3
88	A parallel-distributed processing for time-domain deconvolution coefficients. Signal Processing, 1999, 74, 309-315.	2.1	2
89	Research on digitizing processing of the terracotta warriors and horses of the Qin dynasty. , 0, , .		2
90	Dilation-run wavelet image coding. Signal, Image and Video Processing, 2008, 2, 225-239.	1.7	2

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91	The research of near-field INISAR imaging diagnosis. , 2008, , .		2
92	Channel estimation method for time-varying channel based on periodic PN sequence for OFDM systems. , 2009, , .		2
93	A new method for foggy image enhancment. , 2009, , .		2
94	TDI CCD non-uniformity correction algorithm. , 2009, , .		2
95	An efficient medical image tracking algorithm based on motion estimation. , 2009, , .		2
96	<title>Hyperspectral image lossless compression algorithm based on adaptive band regrouping</title>. , 2009, , .		2
97	Band regrouping-based lossless compression of hyperspectral images. Journal of Applied Remote Sensing, 2010, 4, 041757.	0.6	2
98	A novel semi-supervised feature extraction algorithm. , 2011, , .		2
99	An EM-based spatial-spectral restoration approach for hyperspectral images. , 2012, , .		2
100	Locality-preserving discriminant analysis and Gaussian mixture models for spectral-spatial classification of hyperspectral imagery. , 2012, , .		2
101	Hyperspherical color transform based pansharpening method for WorldView-2 satellite images. , 2013, , .		2
102	Modified affinity propagation clustering. , 2014, , .		2
103	Spatial preprocessing for spectral endmember extraction by local linear embedding. , 2015, , .		2
104	Resource restricted on-line Video Summarization with Minimum Sparse Reconstruction. , 2015, , .		2
105	Subpixel mapping of hyperspectral images based on collaborative representation. , 2016, , .		2
106	Timing design for geosynchronous SAR. Electronics Letters, 2016, 52, 868-870.	0.5	2
107	Weighted Kernel-Based Signature Subspace Projection for Hyperspectral Target Detection. , 2018, , .		2
108	SDBF-Net: Semantic and Disparity Bidirectional Fusion Network for 3D Semantic Detection on Incidental Satellite Images. , 2019, , .		2

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109	LEVEL SET METHOD OF IMAGE SEGMENTATION BASED ON IMPROVED C-V MODEL OF 3-D HISTOGRAM. Hongwai Yu Haomibo Xuebao/Journal of Infrared and Millimeter Waves, 2008, 27, 72-76.	0.2	2
110	Fast and Robust Differential Relative Pose Estimation With Radial Distortion. IEEE Signal Processing Letters, 2022, 29, 294-298.	2.1	2
111	Neural network modeling of flight control system. IEEE Aerospace and Electronic Systems Magazine, 1998, 13, 27-29.	2.3	1
112	Multi-spectral and Panchromatic Image Fusion based on Local Information Entropy and its Distribution Property. , 2006, , .		1
113	Classification of Multi-spectral/Hyperspectral Data using Genetic Programming and Error-correcting Output Codes. , 2006, , .		1
114	A Novel Fast Image Fusion Algorithm Based on Directional Contrast and Weighted Activity. , 2007, , .		1
115	Image registration by integrating similarity and epipolar constraints. , 2008, , .		1
116	Two Efficient Algorithms for Outlier Removal in Multi-view Geometry Using $L_{2,1}$ Norm. , 2009, , .		1
117	A Heterogeneity-Based Ship Detection Algorithm for SAR Imagery. , 2009, , .		1
118	Remote sensing image restoration based on compressive sensing and two-step iteration shrinkage algorithm. , 2010, , .		1
119	Virtual dimensionality estimation by double subspace projection for hyperspectral images. , 2010, , .		1
120	Factorization-based structure-and-motion computation for generalized camera model. , 2011, , .		1
121	Multi-focus image fusion by progressive pixel extraction. , 2011, , .		1
122	Signal characteristics analysis of GEO SAR. , 2013, , .		1
123	Iterative keyframe selection by orthogonal subspace projection. , 2014, , .		1
124	A novel attitude steering strategy for GEO SAR staring imaging. , 2015, , .		1
125	Endmember extraction by $L_{2,0}$ constrained sparse dictionary selection. , 2015, , .		1
126	Extended morphological profiles with duality for hyperspectral image classification. , 2015, , .		1

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127	Deep stacking network with coarse features for hyperspectral image classification. , 2016, , .		1
128	Attention to the Scale: Deep Multi-Scale Salient Object Detection. , 2017, , .		1
129	CNN with ICA-PCA-DCT Joint Preprocessing for Hyperspectral Image Classification. , 2019, , .		1
130	Input-Perturbation-Sensitivity for Performance Analysis of CNNs on Image Recognition. , 2019, , .		1
131	Precise Internal Calibration Scheme for Very-High Resolution SAR System and Its Airborne Campaign Results. IEEE Access, 2020, 8, 89708-89719.	2.6	1
132	å•ç®èšŧéç`è;âšç®æ†è½`è;1â,%oç»é†â»çš,,â13æ»çº æŸæ³•. Scientia Sinica Informationis, 2012, 42, 988-1006. 0.2		1
133	A Representation Separation Perspective to Correspondence-Free Unsupervised 3-D Point Cloud Registration. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
134	Wavelet image coding by dilation-run algorithm. , 0, , .		0
135	Multi-resolution surface reconstruction. , 0, , .		0
136	Multispectral and Panchromatic Image Fusion Algorithm Based on Local Spatial Recovery Model. , 2008, , .		0
137	An Optimal Tone Mapping Algorithm for the Display of High Dynamic Range Images. , 2009, , .		0
138	3D wavelet transform and its application in multispectral and hyperspectral image fusion. , 2009, , .		0
139	Residue-based fusion of denoised images by different filter banks. , 2009, , .		0
140	A dynamic hierarchy for large models based on adaptive segmentation and fast simplification algorithm. , 2009, , .		0
141	Acoustic objective recognition in wireless sensor networks. , 2009, , .		0
142	A novel pansharpening algorithm for IKONOS and QuickBird images. , 2009, , .		0
143	Design of signal processing circuit for 480×6 infrared detector. , 2009, , .		0
144	<title>A novel adaptive noise filtering method for SAR images</title>. Proceedings of SPIE, 2009, , .	0.8	0

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145	Multifocus color image fusion on feature level. , 2010, , .		0
146	Advance in triangular mesh simplification study. , 2010, , .		0
147	Hyperspectral image compression algorithm using wavelet transform and independent component analysis. Proceedings of SPIE, 2010, , .	0.8	0
148	A hybrid algorithm for training adaptive ridgelet neural network. , 2011, , .		0
149	Double-paralleled ridgelet neural network with IFPSO training algorithm. , 2011, , .		0
150	Vehicle-Mounted Camera Optimal Setting and Lane Projective Model for Lane Detection System. Applied Mechanics and Materials, 0, 220-223, 1362-1367.	0.2	0
151	Alleviating blocking artifacts via curve-fitting. , 2012, , .		0
152	Unsupervised Spectral Mixture Analysis with Hopfield Neural Network for hyperspectral images. , 2012, , .		0
153	A multiclassifier and decision fusion system for hyperspectral image classification. , 2013, , .		0
154	An effective pansharpening algorithm for GeoEye-1 satellite images. , 2013, , .		0
155	Lane Model and Calculation of Lane Geometric Structure and Vehicle Deviation Angle and Position in Lane for Intelligent Vehicle. Applied Mechanics and Materials, 0, 274, 336-339.	0.2	0
156	Data structure based discriminant score for feature selection. , 2014, , .		0
157	General chairs' welcome message. , 2014, , .		0
158	A relaxation method to articulated trajectory reconstruction from monocular image sequence. , 2014, , .		0
159	Combination of CEM & RXD for target detection in hyperspectral images. , 2016, , .		0
160	Subpixel mapping of hyperspectral images with hybrid endmember library and optimized abundances. , 2017, , .		0
161	TPMT based Automatic Road Extraction from 3D Real Scenes. , 2018, , .		0
162	Dense Depth Completion Based on Piecewise Planar Model. , 2019, , .		0

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163	Imaging experiment based on airship-born SAR for long synthetic aperture time. , 2019, , .		0
164	Adaptive multi-layer structure with spatial-spectrum combination for hyperspectral image anomaly detection. Xibei Gongye Daxue Xuebao/Journal of Northwestern Polytechnical University, 2021, 39, 484-491.	0.3	0
165	LERANet: Low-light Enhancement Network based on Retinex and Attention. , 2021, , .		0
166	HSDWT based multispectral and hyperspectral image fusion. , 2008, , .		0
167	Rate distortion optimised motion estimation based on a general framework. , 2008, , .		0
168	An automatic ship detection scheme in open ocean for Synthetic Aperture Radar images. , 2009, , .		0
169	Electronically tunable filtering networks: theory, analysis and simulation. IEE Proceedings, Part G: Circuits, Devices and Systems, 1993, 140, 367.	0.2	0
170	Adaptive Multi-Layer Structure for Anomaly Detection in Hyperspectral Images. , 2020, , .		0