

Wei Wu

List of Publications by Year in descending order

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51
papers

2,048
citations

394421

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302126

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all docs

52
docs citations

52
times ranked

1767
citing authors

#	ARTICLE	IF	CITATIONS
1	Objective Assessment of Multiresolution Image Fusion Algorithms for Context Enhancement in Night Vision: A Comparative Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 94-109.	13.9	546
2	Feedback Network for Image Super-Resolution. , 2019, , .		498
3	Infrared and visible image fusion with the use of multi-scale edge-preserving decomposition and guided image filter. Infrared Physics and Technology, 2015, 72, 37-51.	2.9	99
4	Learning-based super resolution using kernel partial least squares. Image and Vision Computing, 2011, 29, 394-406.	4.5	61
5	Coupled GAN With Relativistic Discriminators for Infrared and Visible Images Fusion. IEEE Sensors Journal, 2021, 21, 7458-7467.	4.7	61
6	Bayer Demosaicking With Polynomial Interpolation. IEEE Transactions on Image Processing, 2016, 25, 5369-5382.	9.8	52
7	Medical images fusion by using weighted least squares filter and sparse representation. Computers and Electrical Engineering, 2018, 67, 252-266.	4.8	43
8	Fusion algorithm for multisensor images based on discrete multiwavelet transform. IET Computer Vision, 2002, 149, 283.	1.3	42
9	Combining Unmanned Aerial Vehicles With Artificial-Intelligence Technology for Traffic-Congestion Recognition: Electronic Eyes in the Skies to Spot Clogged Roads. IEEE Consumer Electronics Magazine, 2019, 8, 81-86.	2.3	42
10	An automated vision system for container-code recognition. Expert Systems With Applications, 2012, 39, 2842-2855.	7.6	41
11	Classification of defects with ensemble methods in the automated visual inspection of sewer pipes. Pattern Analysis and Applications, 2015, 18, 263-276.	4.6	35
12	An Adaptive Pansharpener Method by Using Weighted Least Squares Filter. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 18-22.	3.1	35
13	Fusing synergistic information from multi-sensor images: An overview from implementation to performance assessment. Information Fusion, 2018, 42, 127-145.	19.1	35
14	A multifocus image fusion method by using hidden Markov model. Optics Communications, 2013, 287, 63-72.	2.1	34
15	Medical image super-resolution by using multi-dictionary and random forest. Sustainable Cities and Society, 2018, 37, 358-370.	10.4	29
16	Recursive Geman-McClure Estimator for Implementing Second-Order Volterra Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1272-1276.	3.0	28
17	Multiple dictionary pairs learning and sparse representation-based infrared image super-resolution with improved fuzzy clustering. Soft Computing, 2018, 22, 1385-1398.	3.6	24
18	A new framework for remote sensing image super-resolution: Sparse representation-based method by processing dictionaries with multi-type features. Journal of Systems Architecture, 2016, 64, 63-75.	4.3	23

#	ARTICLE	IF	CITATIONS
19	Improving laser image resolution for pitting corrosion measurement using Markov random field method. Automation in Construction, 2012, 21, 172-183.	9.8	20
20	Multi-Focus Image Fusion Method for Vision Sensor Systems via Dictionary Learning with Guided Filter. Sensors, 2018, 18, 2143.	3.8	20
21	Improving resolution of medical images with deep dense convolutional neural network. Concurrency Computation Practice and Experience, 2020, 32, e5084.	2.2	19
22	Medical image super-resolution via minimum error regression model selection using random forest. Sustainable Cities and Society, 2018, 42, 1-12.	10.4	18
23	Pansharpening multispectral remote sensing images with guided filter for monitoring impact of human behavior on environment. Concurrency Computation Practice and Experience, 2021, 33, e5074.	2.2	17
24	Dynamics of a mean-shift-like algorithm and its applications on clustering. Information Processing Letters, 2013, 113, 8-16.	0.6	16
25	Affine Projection Algorithm-Based High-Order Error Power for Partial Discharge Denoising in Power Cables. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1821-1832.	4.7	15
26	Special issue on bio-medical signal processing for smarter mobile healthcare using big data analytics. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3739-3745.	4.9	14
27	A fast single-image super-resolution method implemented with CUDA. Journal of Real-Time Image Processing, 2019, 16, 81-97.	3.5	14
28	Multi-sensor image super-resolution with fuzzy cluster by using multi-scale and multi-view sparse coding for infrared image. Multimedia Tools and Applications, 2017, 76, 24871-24902.	3.9	13
29	Infrared and visible images fusion by using sparse representation and guided filter. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2020, 24, 254-263.	4.2	13
30	A novel multi-focus image fusion method for improving imaging systems by using cascade-forest model. Eurasip Journal on Image and Video Processing, 2020, 2020, .	2.6	11
31	Self-regularized nonlinear diffusion algorithm based on levenberg gradient descent. Signal Processing, 2019, 163, 107-114.	3.7	10
32	Fast multisensor infrared image super-resolution scheme with multiple regression models. Journal of Systems Architecture, 2016, 64, 11-25.	4.3	9
33	Multi-Semi-Couple Super-Resolution Method for Edge Computing. IEEE Access, 2018, 6, 5511-5520.	4.2	9
34	Single image super-resolution using self-similarity and generalized nonlocal mean. , 2013, , .		8
35	A New Framework for Container Code Recognition by Using Segmentation-Based and HMM-Based Approaches. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1550004.	1.2	8
36	A sparse representation-based image resolution improvement method by processing multiple dictionary pairs with latent Dirichlet allocation model for street view images. Sustainable Cities and Society, 2018, 38, 55-69.	10.4	8

#	ARTICLE	IF	CITATIONS
37	Infrared Image Super-Resolution with Parallel Random Forest. International Journal of Parallel Programming, 2018, 46, 838-858.	1.5	8
38	A Real-Time Super-Resolution Method Based on Convolutional Neural Networks. Circuits, Systems, and Signal Processing, 2020, 39, 805-817.	2.0	8
39	Hidden-Markov-Model-Based Segmentation Confidence Applied to Container Code Character Extraction. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1147-1156.	8.0	7
40	An image fusion algorithm of infrared and visible imaging sensors for cyber-physical systems. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4277-4291.	1.4	7
41	A novel scheme for infrared image enhancement by using weighted least squares filter and fuzzy plateau histogram equalization. Multimedia Tools and Applications, 2017, 76, 24789-24817.	3.9	6
42	Multifocus image fusion using random forest and hidden Markov model. Soft Computing, 2019, 23, 9385-9396.	3.6	6
43	An Efficient Method to Synthesize Reversible Logic by Using Positive Davio Decision Diagrams. Circuits, Systems, and Signal Processing, 2014, 33, 3107-3121.	2.0	4
44	Remote Sensing Image Super-resolution Using Dual-Dictionary Pairs Based on Sparse Presentation and Multiple Features. , 2014, , .		3
45	Clustering based multiple branches deep networks for single image super-resolution. Multimedia Tools and Applications, 2020, 79, 9019-9035.	3.9	3
46	Image Enlargement Using Multiple Sensors. Journal of Sensors, 2016, 2016, 1-3.	1.1	2
47	Improving Resolution of 3D Surface With Convolutional Neural Networks. Sustainable Cities and Society, 2018, 42, 127-138.	10.4	2
48	Multiple Regressions based Image Super-resolution. Multimedia Tools and Applications, 2020, 79, 8911-8927.	3.9	2
49	The use of the contrast sensitivity function in the perceptual quality assessment of fused image. International Journal of Image and Data Fusion, 2011, 2, 93-103.	1.7	1
50	Infrared Image Recovery from Visible Image by Using Multi-scale and Multi-view Sparse Representation. , 2015, , .		1
51	Rate control in H.264 wireless video communication system. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 378-387.	0.9	0