

# Contrast restoration of weather degraded images

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Clear underwater vision. , 0, , .		161
2	Detection of Occlusion Edges from the Derivatives of Weather Degraded Images. , 0, , .		3
3	Contrast restoration of foggy images through use of an onboard camera. , 0, , .		26
4	Rainy weather recognition from in-vehicle camera images for driver assistance. , 2005, , .		121
5	Real-Time Disparity Contrast Combination for Onboard Estimation of the Visibility Distance. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 201-212.	4.7	65
6	Automatic fog detection and estimation of visibility distance through use of an onboard camera. Machine Vision and Applications, 2006, 17, 8-20.	1.7	229
7	Raindrop Detection from In-Vehicle Video Camera Images for Rainfall Judgment. , 0, , .		12
8	Viewing Scenes Occluded by Smoke. Lecture Notes in Computer Science, 2006, , 750-759.	1.0	3
9	Visibility Estimation in Foggy Conditions by In-Vehicle Camera and Radar. , 0, , .		18
10	An improved fog-degraded image enhancement algorithm. , 2007, , .		12
11	Towards Fog-Free In-Vehicle Vision Systems through Contrast Restoration. , 2007, , .		135
12	Recognition of foggy conditions by in-vehicle camera and millimeter wave radar. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	25
13	A New Convolution Kernel for Atmospheric Point Spread Function Applied to Computer Vision. , 2007, , .		32
14	An IA-Based Classification Rule Mining Algorithm. , 2007, , .		1
15	Visibility Enhancement for Roads with Foggy or Hazy Scenes. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	31
16	Correction of Simple Contrast Loss in Color Images. IEEE Transactions on Image Processing, 2007, 16, 511-522.	6.0	106
17	Vision and Rain. International Journal of Computer Vision, 2007, 75, 3-27.	10.9	347
18	A real-time object detecting and tracking system for outdoor night surveillance. Pattern Recognition, 2008, 41, 432-444.	5.1	114

#	ARTICLE	IF	CITATIONS
19	A Kalman filter-based approach for adaptive restoration of in-vehicle camera foggy images. , 2008, , .		3
20	Enhancement of image degraded by fog using cost function based on human visual model. , 2008, , .		12
21	A Kalman filter based restoration method for in-vehicle camera images in foggy conditions. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	7
22	Commentary Paper 2 on "Automatic Detection of Adverse Weather Conditions in Traffic Scenes". , 2008, , .		0
23	Contextual Spatiospectral Postreconstruction of Cloud-Contaminated Images. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 204-208.	1.4	51
24	Automatic Detection of Adverse Weather Conditions in Traffic Scenes. , 2008, , .		9
25	Commentary Paper 1 on "Automatic Detection of Adverse Weather Conditions in Traffic Scenes". , 2008, , .		0
26	Visibility in bad weather from a single image. , 2008, , .		1,572
27	Rain Removal Using Kalman Filter in Video. , 2008, , .		28
28	Deep photo. ACM Transactions on Graphics, 2008, 27, 1-10.	4.9	527
29	Scattering. , 2008, , .		6
30	IQ evaluation based adaptive wavelet denoising and enhancement for a VTRAN system. , 2008, , .		2
31	Color image dehazing using the near-infrared. , 2009, , .		140
32	Image De-Weathering for Road Based on Physical Model. , 2009, , .		8
33	A Fuzzy Logic Based Approach to De-Weather Fog-Degraded Images. , 2009, , .		10
34	Study of Defog Technology Based on Scattering Model in Assistant Driving System. , 2009, , .		1
35	Photometric stereo and weather estimation using internet images. , 2009, , .		10
36	Contrast Restoration for Fog-Degraded Images. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
37	Research on Factors of the Availability of Remote Sensing Images and the Assessment Model Based on the Structure of Clouds. , 2009, , .		1
38	Removing image artifacts due to dirty camera lenses and thin occluders. ACM Transactions on Graphics, 2009, 28, 1-10.	4.9	46
39	Novel depth cues from light scattering. Image and Vision Computing, 2009, 27, 19-36.	2.7	4
40	A new method for foggy image enhancment. , 2009, , .		2
41	Factorizing Scene Albedo and Depth from a Single Foggy Image. , 2009, , .		202
42	Removing image artifacts due to dirty camera lenses and thin occluders. , 2009, , .		18
43	Fast visibility restoration from a single color or gray level image. , 2009, , .		889
44	A field theoretical restoration method for images degraded by non-uniform light attenuation : an application for light microscopy. Optics Express, 2009, 17, 11294.	1.7	4
45	Mitigation of atmospheric contrast degradation via image enhancement. , 2009, , .		1
46	Fog Removal from Video Sequences Using Contrast Limited Adaptive Histogram Equalization. , 2009, , .		56
47	Single image defogging. , 2009, , .		12
48	Adaptive Defogging of a Single Image. , 2009, , .		7
49	Fog Removal from Color Images using Contrast Limited Adaptive Histogram Equalization. , 2009, , .		59
50	A New Defogging Method with Nested Windows. , 2009, , .		4
51	Fog detection system based on computer vision techniques. , 2009, , .		66
52	Stereo Based Structure Recovery of Underwater Scenes from Automatically Restored Images. , 2009, , .		29
53	Single image haze removal using dark channel prior. , 2009, , .		316
54	Real-Time Dehazing for Image and Video. , 2010, , .		37

#	ARTICLE	IF	CITATIONS
55	Fast Single Image Dehazing Using Iterative Bilateral Filter. , 2010, , .		8
56	Simple defogging method for outdoor images based on physical model. Proceedings of SPIE, 2010, , .	0.8	0
57	Real-time content adaptive contrast enhancement for see-through fog and rain. , 2010, , .		14
58	Relative gradients for image lighting correction. , 2010, , .		8
59	Restoration of an atmospherically blurred image based on physical model fusion approach. , 2010, , .		6
60	Imaging air quality evaluation using definition metrics and detrended fluctuation analysis. , 2010, , .		6
61	Effective single image dehazing by fusion. , 2010, , .		95
62	The method of image restoration in the environments of dust. , 2010, , .		3
63	Study on the Method of Image Restoration in the Environment of Dust. , 2010, , .		1
64	Methods of Restoring a Weather Degradation Image Based on Physical Model and Their Application. , 2010, , .		0
65	A New Threshold Segmentation Method Based on the Genetic Algorithm for Enhancing the Images. , 2010, , .		1
66	Fog-Degraded Image Clearness Based on Wavelet Fusion. , 2010, , .		8
67	A Content-Adaptive Method for Single Image Dehazing. Lecture Notes in Computer Science, 2010, , 350-361.	1.0	7
68	Dehazing model based on multiple scattering. , 2010, , .		7
69	Physics-based fast single image fog removal. , 2010, , .		79
70	Improved single image dehazing using dark channel prior. , 2010, , .		28
71	Traffic images enhancement based on vanishing point detection and atmospheric scattering model. , 2010, , .		3
72	Monocular depth cue fusion for image segmentation and grouping in outdoor navigation. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
73	Improved Single Image Dehazing Using Dark Channel Prior and Multi-scale Retinex. , 2010, , .		100
74	Improved single image dehazing using segmentation. , 2010, , .		30
75	An investigation in dehazing compressed images and video. , 2010, , .		22
76	Method and Application of Image Clearness in Bad Weather. , 2010, , .		0
77	Mitigation of Visibility Loss for Advanced Camera-Based Driver Assistance. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 474-484.	4.7	49
78	Fast Clear Single Underwater Image. , 2010, , .		8
79	Single image dehazing and denoising with variational method. , 2010, , .		7
80	Contrast restoration of road images taken in foggy weather. , 2011, , .		12
81	A time, space and color-based classification of different weather conditions. , 2011, , .		0
82	Computer vision for the remote sensing of atmospheric visibility. , 2011, , .		12
83	Single image dehazing based on contrast enhancement. , 2011, , .		54
84	Image quality assessment on image haze removal. , 2011, , .		10
85	Fast single image fog removal using edge-preserving smoothing. , 2011, , .		29
86	A two-step approach to see-through bad weather for surveillance video quality enhancement. , 2011, , .		8
87	Single fogged image restoration using improved mean shift filtering. , 2011, , .		3
88	A Fog-removing Method of Colorized Images Based on HighPass Filtering. , 2011, , .		4
89	Single image dehazing based on detail loss compensation and degradation. , 2011, , .		4
90	Adaptive contrast enhancement involving CNN-based processing for foggy weather conditions & non-uniform lighting conditions. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
91	Atmospheric scattering-based multiple images fog removal. , 2011, , .		6
92	Reconstructing static scene viewed through smoke using video. , 2011, , .		1
93	Scattering Removal for Finger-Vein Image Enhancement. , 2011, , .		2
94	Color changes in objects in natural scenes as a function of observation distance and weather conditions. Applied Optics, 2011, 50, F112.	2.1	8
95	Single Image Haze Removal Using Dark Channel Prior. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2341-2353.	9.7	3,703
96	Finger-Vein Recognition Based on Gabor Features. , 0, , .		12
97	A Method for Testing GPS in Obstructed Environments Where GPS/INS Reference Systems Can Be Ineffective. , 0, , .		3
98	Restoration of Uneven Illumination in Light Sheet Microscopy Images. Microscopy and Microanalysis, 2011, 17, 607-613.	0.2	7
99	A model-driven approach to estimate atmospheric visibility with ordinary cameras. Atmospheric Environment, 2011, 45, 5316-5324.	1.9	42
100	Multiclass object classification for real-time video surveillance systems. Pattern Recognition Letters, 2011, 32, 805-815.	2.6	37
101	Feature extraction for classification of different weather conditions. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2011, 6, 339-346.	0.6	4
102	Multi-image stitching and scene reconstruction for evaluating defect evolution in structures. Structural Health Monitoring, 2011, 10, 643-657.	4.3	55
103	Combining multiple sensor modalities for a localisation robust to smoke. , 2011, , .		5
104	Single image haze removal to deal with cross-color. , 2011, , .		2
105	A Fog-Removing Treatment Based on Combining High-Frequency Emphasis Filtering and Histogram Equalization. Key Engineering Materials, 0, 474-476, 2198-2202.	0.4	1
106	Fog Detection and Classification Using Gray Histograms. Advanced Materials Research, 2011, 403-408, 570-576.	0.3	1
107	Research on an Improved Algorithm of Fog-Degrade Image Defogging Based on Analysis of Scientific Data Materials. Advanced Materials Research, 2011, 282-283, 425-428.	0.3	1
108	A novel fast dehazing algorithm in driver assistance system. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
109	Scattering Removal for Finger-Vein Image Restoration. Sensors, 2012, 12, 3627-3640.	2.1	47
110	A Modified Haze Removal Algorithm Using Dark Channel Prior. Advanced Materials Research, 0, 457-458, 1397-1402.	0.3	1
111	Universal strategy for surveillance video defogging. Optical Engineering, 2012, 51, 101703.	0.5	15
112	Visibility cameras. , 2012, , .		4
113	Image degradation and recovery based on multiple scattering in remote sensing and bad weather condition. Optics Express, 2012, 20, 16584.	1.7	29
114	Urban visibility measurements during tropical weather events using image processing. , 2012, , .		3
115	Raindrops size and shape from videosonde and image processing. , 2012, , .		0
116	Visibility Enhancement Based Real – Time Retinex for Diverse Environments. , 2012, , .		1
117	A novel edge-aware &#x00C0;-Trous filter for single image dehazing. , 2012, , .		0
118	Removal of Fog from Images: A Review. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314,rgBT /Overlock 10 TF	2.1	43
119	Raindrops size from video and image processing. , 2012, , .		1
120	Fast haze removal for a single remote sensing image using dark channel prior. , 2012, , .		13
121	A Novel Defogging Algorithm Based on Genetic Algorithm with Analysis of Scientific Data Materials. Advanced Materials Research, 2012, 461, 806-809.	0.3	0
122	A two-step approach to see-through bad weather for surveillance video quality enhancement. Machine Vision and Applications, 2012, 23, 1059-1082.	1.7	27
123	Visibility estimation of traffic signals under rainy weather conditions for smart driving support. , 2012, , .		8
124	Efficient image/video dehazing through haze density analysis based on pixel-based dark channel prior. , 2012, , .		22
125	Constant time O(1) image fog removal using lowest level channel. Electronics Letters, 2012, 48, 1404.	0.5	21
126	Enhancing underwater images and videos by fusion. , 2012, , .		581



#	ARTICLE	IF	CITATIONS
127	Finger-vein ROI localization and vein ridge enhancement. Pattern Recognition Letters, 2012, 33, 1569-1579.	2.6	162
128	Fast image dehazing using improved dark channel prior. , 2012, , .		102
129	Fog-degraded image restoration using characteristics of RGB channel in single monocular image. , 2012, , .		5
130	Fog Effects Modeling and Removal for Real-Time Vision Applications. , 2012, , .		0
131	Image restoration and enhancement for finger-vein recognition. , 2012, , .		10
132	Visibility enhancement using an image filtering approach. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	31
133	Finger-Vein Image Restoration Based on a Biological Optical Model. , 2012, , .		4
134	Bayesian Defogging. International Journal of Computer Vision, 2012, 98, 263-278.	10.9	466
135	Adaptive defogging with color correction in the HSV color space for consumer surveillance system. IEEE Transactions on Consumer Electronics, 2012, 58, 111-116.	3.0	54
136	Measurement of a Container Crane Spreader Under Bad Weather Conditions by Image Restoration. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 35-42.	2.4	28
137	Single image haze removal considering sensor blur and noise. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	48
138	An analysis of single image defogging methods using a color ellipsoid framework. Eurasip Journal on Image and Video Processing, 2013, 2013, .	1.7	50
139	Hardware Implementation of a Fast and Efficient Haze Removal Method. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1369-1374.	5.6	68
140	Exact Histogram Specification for Digital Images Using a Variational Approach. Journal of Mathematical Imaging and Vision, 2013, 46, 309-325.	0.8	34
141	Efficient dark channel based image dehazing using quad-trees. Science China Information Sciences, 2013, 56, 1-9.	2.7	32
142	Single image dehazing based on reliability map of dark channel prior. , 2013, , .		11
143	A relaxed factorial Markov random field for colour and depth estimation from a single foggy image. , 2013, , .		5
144	A novel single image dehazing method. , 2013, , .		8

#	ARTICLE	IF	CITATIONS
145	Review on raindrop detection and removal in weather degraded images. , 2013, , .		8
146	Single image dehazing motivated by Retinex theory. , 2013, , .		36
147	Single Image Dehazing by Multi-Scale Fusion. IEEE Transactions on Image Processing, 2013, 22, 3271-3282.	6.0	575
148	Optimized contrast enhancement for real-time image and video dehazing. Journal of Visual Communication and Image Representation, 2013, 24, 410-425.	1.7	390
149	A Sea-Ice Lead Detection Algorithm for Use With High-Resolution Airborne Visible Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 38-56.	2.7	43
150	A dehazing algorithm using dark channel prior and contrast enhancement. , 2013, , .		13
151	A Novel Visibility Restoration Algorithm for Single Hazy Images. , 2013, , .		8
152	Haze Removal from Single Images Based on a Luminance Reference Model. , 2013, , .		4
153	Visibility Enhancement of Single Hazy Images Using Hybrid Dark Channel Prior. , 2013, , .		13
154	Image enhancement using wavelet decomposition, quadratic thresholding and Auto-Adaptive LUM filter. , 2013, , .		0
155	Fast haze removal from a single image. , 2013, , .		11
156	A fast dark channel prior-based depth map approximation method for dehazing single images. , 2013, , .		7
157	Image contrast enhancement for outdoor machine vision applications. , 2013, , .		1
158	Dense scattering layer removal. , 2013, , .		15
159	Image dehazing using dark channels with global transmission. , 2013, , .		0
160	Haze effect removal from image via haze density estimation in optical model. Optics Express, 2013, 21, 27127.	1.7	85
161	The Research on Defogging Algorithm Based on Dark Channel in Color Space. Applied Mechanics and Materials, 0, 373-375, 437-441.	0.2	0
162	A Novel Image Contrast Restoration Algorithm for Fog. Advanced Materials Research, 2013, 709, 534-537.	0.3	1

#	ARTICLE	IF	CITATIONS
163	Accurate depth estimation for image defogging using Markov random field. , 2013, , .		5
164	Ultrasonic imaging contrast enhancement using modified dehaze image model. Electronics Letters, 2013, 49, 1209-1211.	0.5	4
165	Single Image Defogging Algorithm Based on Sparsity. Applied Mechanics and Materials, 2013, 373-375, 558-563.	0.2	0
166	A Legible Method for Fluid Cavity Detection in Ultrasound Image. Applied Mechanics and Materials, 0, 341-342, 777-783.	0.2	0
167	An Dehazing Algorithm of Lossy Compression Video Image. Advanced Materials Research, 0, 850-851, 825-829.	0.3	0
168	The Dedusting Method Based on a Single Still Image. Applied Mechanics and Materials, 0, 333-335, 929-933.	0.2	0
169	Object Classification in Videos”An Overview. Journal of Automation and Control Engineering, 2013, 1, 106-109.	0.3	4
170	A Research for Image Defogging Algorithm. Applied Mechanics and Materials, 2013, 409-410, 1653-1656.	0.2	3
171	Enhancement of fog degraded images using empirical mode decomposition. , 2013, , .		2
172	Efficient Image Dehazing with Boundary Constraint and Contextual Regularization. , 2013, , .		736
173	Transmission Estimation in Underwater Single Images. , 2013, , .		349
174	An enhanced window-variant dark channel prior for depth estimation using single foggy image. , 2013, , .		7
175	Single image haze removal with WLS-based edge-preserving smoothing filter. , 2013, , .		24
176	Weather-predicting atmospheric modulation transfer function. , 2013, , .		2
177	A novel segmentation guided approach for single image dehazing. , 2013, , .		4
178	Fast Single Image De-Hazing Using Characteristics of RGB Channel of Foggy Image. IEICE Transactions on Information and Systems, 2013, E96.D, 1793-1799.	0.4	9
179	An Image Dehazing Model considering Multiplicative Noise and Sensor Blur. Journal of Computational Engineering, 2014, 2014, 1-9.	0.8	2
180	Backscatter Compensated Photometric Stereo with 3 Sources. , 2014, , .		41

#	ARTICLE	IF	CITATIONS
181	Image restoration with a microscanning imaging system. Journal of Communications Technology and Electronics, 2014, 59, 1451-1464.	0.2	5
182	Finger-vein network enhancement and segmentation. Pattern Analysis and Applications, 2014, 17, 783-797.	3.1	14
183	Single image haze removal using dark channel prior and fields of experts model. , 2014, , .		4
184	Mean shift-based single image dehazing with re-refined transmission map. , 2014, , .		0
185	Fast image dehazing algorithm based on multiple filters. , 2014, , .		1
186	Foggy Image Enhancement Based on Filter Variable Multi-Scale Retinex. Applied Mechanics and Materials, 0, 505-506, 1041-1045.	0.2	4
187	Research on Images Restoration Method under the Foggy Environment. Advanced Materials Research, 0, 1070-1072, 2037-2040.	0.3	0
188	Pattern recognition applied to infrared images for early alerts in fog. , 2014, , .		1
189	Quick shift segmentation guided single image haze removal algorithm. , 2014, , .		4
190	Referenceless perceptual fog density prediction model. Proceedings of SPIE, 2014, , .	0.8	11
191	Single image dehazing using local adaptive signal processing. , 2014, , .		2
192	An Effective Surround Filter for Image Dehazing. , 2014, , .		6
193	Single image fog removal using COIN filters. , 2014, , .		2
194	An adaptive-window-based image dehazing method. , 2014, , .		0
195	Single image dehazing with image entropy and information fidelity. , 2014, , .		53
196	Evaluation of PM2.5 and PM10 using normalized first-order absolute sum of high-frequency spectrum. , 2014, , .		2
197	A faithful restoration of haze images using an optimized transmission map. , 2014, , .		2
198	A retinex-based enhancing approach for single underwater image. , 2014, , .		266

#	ARTICLE	IF	CITATIONS
199	Thin cloud removal from single satellite images. Optics Express, 2014, 22, 618.	1.7	42
200	Investigating Haze-Relevant Features in a Learning Framework for Image Dehazing. , 2014, , .		407
201	Referenceless perceptual image defogging. , 2014, , .		13
202	High-speed min-max bilateral filter-based image dehazing by using GPGPU. , 2014, , .		3
203	Simultaneous underwater visibility assessment, enhancement and improved stereo. , 2014, , .		50
204	Single image defogging with single and multiple hybrid scattering model. , 2014, , .		1
205	Snowfall Detection in a Foggy Scene. , 2014, , .		5
206	Nighttime haze removal based on a new imaging model. , 2014, , .		77
207	A Research for Fuzzy Image Restoration. Advanced Materials Research, 0, 955-959, 1085-1088.	0.3	1
208	Multioriented video scene based image dehazing using artificial bee colony optimization. , 2014, , .		1
209	Single image dehazing based on fast wavelet transform with weighted image fusion. , 2014, , .		20
210	Fast single image dehazing algorithm. , 2014, , .		1
211	The latest challenges and opportunities in the current single image dehazing algorithms. , 2014, , .		2
212	Single image fog removal using gamma transformation and median filtering. , 2014, , .		16
213	Improved image defogging method and its application in video monitoring system based on ARM. Sensor Review, 2014, 34, 266-272.	1.0	1
214	Weighted haze removal method with halo prevention. Journal of Visual Communication and Image Representation, 2014, 25, 445-453.	1.7	43
215	Enhanced fog detection and free-space segmentation for car navigation. Machine Vision and Applications, 2014, 25, 667-679.	1.7	30
216	Fast single haze image enhancement. Computers and Electrical Engineering, 2014, 40, 785-795.	3.0	46

#	ARTICLE	IF	CITATIONS
217	Efficient fog removal from video. <i>Signal, Image and Video Processing</i> , 2014, 8, 1431-1439.	1.7	8
218	A GPU-accelerated real-time single image de-hazing method using pixel-level optimal de-hazing criterion. <i>Journal of Real-Time Image Processing</i> , 2014, 9, 661-672.	2.2	15
219	Single Remote Sensing Image Dehazing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 59-63.	1.4	120
220	Visibility Restoration of Single Hazy Images Captured in Real-World Weather Conditions. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014, 24, 1814-1824.	5.6	171
221	Camera-based visibility estimation: Incorporating multiple regions and unlabeled observations. <i>Ecological Informatics</i> , 2014, 23, 62-68.	2.3	10
222	Towards finger-vein image restoration and enhancement for finger-vein recognition. <i>Information Sciences</i> , 2014, 268, 33-52.	4.0	94
223	Chromatic losses in natural scenes with viewing distance. <i>Color Research and Application</i> , 2014, 39, 341-346.	0.8	3
224	Dynamic local contrast enhancement for advanced driver assistance system in harsh environments. , 2014, , .		1
225	Single Image Defogging by Multiscale Depth Fusion. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 4826-4837.	6.0	136
226	Image haze removal: Status, challenges and prospects. , 2014, , .		10
227	Brightness preserving Bi-histogram equalization using edge pixels information. , 2014, , .		6
228	Haze removal from single images based on a luminance reference model. <i>Optik</i> , 2014, 125, 4958-4963.	1.4	3
229	Outdoor image enhancement: Increasing visibility under extreme Haze and lighting condition. , 2014, , .		6
230	Single image haze removal using content-adaptive dark channel and post enhancement. <i>IET Computer Vision</i> , 2014, 8, 131-140.	1.3	51
231	Fog removal techniques from images: A comparative review and future directions. , 2014, , .		17
232	An improved image clearness algorithm based on dark channel prior. , 2014, , .		4
233	An Efficient Visibility Enhancement Algorithm for Road Scenes Captured by Intelligent Transportation Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 2321-2332.	4.7	95
234	Single Image Dehazing and Denoising: A Fast Variational Approach. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 969-996.	1.3	50

#	ARTICLE	IF	CITATIONS
235	Effective Contrast-Based Dehazing for Robust Image Matching. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1871-1875.	1.4	37
236	A fast image dehazing algorithm based on negative correction. Signal Processing, 2014, 103, 380-398.	2.1	55
237	Single image dehazing in inhomogeneous atmosphere. Optik, 2014, 125, 3868-3875.	1.4	33
238	Real-time hardware accelerator for single image haze removal using dark channel prior and guided filter. IEICE Electronics Express, 2014, 11, 20141002-20141002.	0.3	12
239	Mobile Atmospheric Sensing using Vision Approach. IOP Conference Series: Earth and Environmental Science, 2014, 17, 012016.	0.2	0
240	[Poster] Turbidity-based aerial perspective rendering for mixed reality. , 2014, , .		1
241	A Wavelet-based Approach to Improve Foggy Image Clarity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 930-935.	0.4	8
242	Back propagation neural network dehazing. , 2014, , .		14
243	Single image dehazing based on multiple scattering model. , 2014, , .		3
244	Adaptive sky detection and preservation in dehazing algorithm. , 2015, , .		6
245	Simultaneous video defogging and stereo reconstruction. , 2015, , .		81
246	Fast and efficient contrast enhancement for real time video dehazing and defogging. , 2015, , .		2
247	Single image dehazing with wavelengthâ€dependent transmissions using interâ€channel correlations of a colour image. Electronics Letters, 2015, 51, 1786-1787.	0.5	3
248	Adaptive image fog removal based on multi-scale WLS filter. Journal of Computational Methods in Sciences and Engineering, 2015, 15, 31-40.	0.1	1
249	Iceberg Remote Sensing in Arctic Harsh Conditions. , 2015, , .		0
250	Image dehazing based on structure preserving. Optik, 2015, 126, 3400-3406.	1.4	13
251	Road Recognition Technology by Passive Terahertz Imaging. Journal of the Japan Society for Precision Engineering, 2015, 81, 1168-1172.	0.0	0
252	Haze removal based on sparse representation prior. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
253	An Approach for Shallow Underwater Images Visibility and Color Improvement. Indian Journal of Science and Technology, 2015, 8, .	0.5	2
254	A Retina Inspired Model for Enhancing Visibility of Hazy Images. Frontiers in Computational Neuroscience, 2015, 9, 151.	1.2	32
255	Multiscale Single Image Dehazing Based on Adaptive Wavelet Fusion. Mathematical Problems in Engineering, 2015, 2015, 1-14.	0.6	14
256	Image restoration method for deep-sea tripod observation systems in the South China Sea. , 2015, , .		0
257	Hardy Variation Framework for Restoration of Weather Degraded Images. Mathematical Problems in Engineering, 2015, 2015, 1-11.	0.6	0
258	An Advanced Single-Image Visibility Restoration Algorithm for Real-World Hazy Scenes. IEEE Transactions on Industrial Electronics, 2015, 62, 2962-2972.	5.2	73
259	Haze Removal for a Single Remote Sensing Image Based on Deformed Haze Imaging Model. IEEE Signal Processing Letters, 2015, 22, 1806-1810.	2.1	85
260	Single Image Haze Removal Using White Balancing and Saliency Map. Procedia Computer Science, 2015, 46, 12-19.	1.2	8
261	An Advanced Visibility Restoration Algorithm for Single Hazy Images. ACM Transactions on Multimedia Computing, Communications and Applications, 2015, 11, 1-21.	3.0	24
262	Fast single image haze removal via local atmospheric light veil estimation. Computers and Electrical Engineering, 2015, 46, 371-383.	3.0	32
263	Fast image dehazing using guided filter. , 2015, , .		12
264	Image de-hazing based on optimal compression and histogram specification. , 2015, , .		1
265	Removing Rain from a Single Image via Discriminative Sparse Coding. , 2015, , .		484
266	Image dehazing using two-dimensional canonical correlation analysis. IET Computer Vision, 2015, 9, 903-913.	1.3	11
267	Contrast-based stereoscopic images dehazing. , 2015, , .		1
268	Variational contrast enhancement guided by global and local contrast measurements for single-image defogging. Journal of Applied Remote Sensing, 2015, 9, 095049.	0.6	1
269	Fast single image dehazing with domain transformation-based edge-preserving filter and weighted quadtree subdivision. , 2015, , .		3
270	Shoreline detection, in Tanjung Piai, Malaysia by improving the low brightness and contrast of SPOT-5 images using the NIR-HE method. International Journal of Image and Data Fusion, 0, , 1-17.	0.8	0



#	ARTICLE	IF	CITATIONS
271	Single image dehazing based on maximizing local contrast. , 2015, , .		0
272	Fusion strategy for single image dehazing. , 2015, , .		1
273	Enhancing visibility of hazy images based on the estimation of the polarization value. , 2015, , .		0
274	Fast image dehazing using joint Local Linear sure-based filter and image fusion. , 2015, , .		2
275	Efficient image dehazing based on pixel based dark channel prior and guided filter. , 2015, , .		5
276	Fast smoothing technique with edge preservation for single image dehazing. IET Computer Vision, 2015, 9, 950-959.	1.3	17
277	Real Time Visibility Enhancement for Single Image Haze Removal. Procedia Computer Science, 2015, 54, 501-507.	1.2	17
278	Single hazy image restoration based on fields of experts model and guided filtering. , 2015, , .		0
279	Real Time Image Haze Removal on Multi-core DSP. Procedia Engineering, 2015, 99, 244-252.	1.2	7
280	Single-Image Dehazing via Optimal Transmission Map Under Scene Priors. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1-14.	5.6	87
281	Combating Bad Weather Part II: Fog Removal from Image and Video. Synthesis Lectures on Image, Video, and Multimedia Processing, 2015, 8, 1-84.	0.9	0
282	A Fast Single Image Haze Removal Algorithm Using Color Attenuation Prior. IEEE Transactions on Image Processing, 2015, 24, 3522-3533.	6.0	1,466
283	Enhanced Variational Image Dehazing. SIAM Journal on Imaging Sciences, 2015, 8, 1519-1546.	1.3	84
284	Image haze removal using a hybrid of fuzzy inference system and weighted estimation. Journal of Electronic Imaging, 2015, 24, 033027.	0.5	7
285	Defogging of Visual Images Using SAMEER-TU Database. Procedia Computer Science, 2015, 46, 1676-1683.	1.2	4
286	Wavelength-Adaptive Dehazing Using Histogram Merging-Based Classification for UAV Images. Sensors, 2015, 15, 6633-6651.	2.1	24
287	The Key algorithm Research of Enhanced Vision System Base on Embedded Parallel Computing. , 2015, , .		0
288	Hazy Image Restoration by Bi-Histogram Modification. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-17.	2.9	39

#	ARTICLE	IF	CITATIONS
289	Underwater image enhancement by dehazing and color correction. Journal of Electronic Imaging, 2015, 24, 033023.	0.5	62
290	A hierarchical airlight estimation method for image fog removal. Engineering Applications of Artificial Intelligence, 2015, 43, 27-34.	4.3	14
291	Single image haze removal via depth-based contrast stretching transform. Science China Information Sciences, 2015, 58, 1-17.	2.7	4
292	Contrast enhancement for images in turbid water. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 886.	0.8	181
293	Improved single image and video dehazing using morphological operation. , 2015, , .		2
294	Single image dehazing using the change of detail prior. Neurocomputing, 2015, 156, 1-11.	3.5	62
295	Fast single image dehazing based on image fusion. Journal of Electronic Imaging, 2015, 24, 013020.	0.5	19
296	Recovering of weather degraded images based on RGB response ratio constancy. Applied Optics, 2015, 54, B222.	0.9	25
297	Fast Image Fog Removal Based on Gray Image Guided Filtering. Lecture Notes in Electrical Engineering, 2015, , 635-642.	0.3	0
298	Image visibility enhancement based on atmospheric transmission theory and weight analysis under bad weather condition. Optik, 2015, 126, 5620-5623.	1.4	3
299	Heavy haze removal in a learning framework. , 2015, , .		1
300	Contrast enhancement of roads images with foggy scenes based on histogram equalization. , 2015, , .		22
301	Learning-based underwater image enhancement with adaptive color mapping. , 2015, , .		18
302	Dark channel prior based image de-hazing: A review. , 2015, , .		8
303	Single-image haze removal using the mean vector L2-norm of RGB image sample window. Optik, 2015, 126, 3522-3528.	1.4	24
304	Single image fog removal based on local extrema. IEEE/CAA Journal of Automatica Sinica, 2015, 2, 158-165.	8.5	31
305	An improved image dehazing and enhancing method using dark channel prior. , 2015, , .		8
306	Referenceless Prediction of Perceptual Fog Density and Perceptual Image Defogging. IEEE Transactions on Image Processing, 2015, 24, 3888-3901.	6.0	503

#	ARTICLE	IF	CITATIONS
307	A survey of image dehazing approaches. , 2015, , .		13
308	Edge-Preserving Decomposition-Based Single Image Haze Removal. IEEE Transactions on Image Processing, 2015, 24, 5432-5441.	6.0	145
309	Fast single-image dehazing using linear transformation. Optik, 2015, 126, 3245-3252.	1.4	26
310	Single image haze removal via a simplified dark channel. , 2015, , .		11
311	Multiscale fusion of depth estimations for haze removal. , 2015, , .		2
312	Real-time single image dehazing using block-to-pixel interpolation and adaptive dark channel prior. IET Image Processing, 2015, 9, 725-734.	1.4	49
313	Fast single image and video deweathering using look-up-table approach. AEU - International Journal of Electronics and Communications, 2015, 69, 1773-1782.	1.7	12
314	Single image dehazing with a physical model and dark channel prior. Neurocomputing, 2015, 149, 718-728.	3.5	135
315	A High-Fidelity Haze Removal Method Based on HOT for Visible Remote Sensing Images. Remote Sensing, 2016, 8, 844.	1.8	32
316	Visibility Enhancement of Scene Images Degraded by Foggy Weather Conditions with Deep Neural Networks. Journal of Sensors, 2016, 2016, 1-9.	0.6	17
317	A Priors-Merging Method for Dehazing. , 2016, , .		0
318	Day/night unconstrained image dehazing. , 2016, , .		18
319	Haze removal for a single inland waterway image using sky segmentation and dark channel prior. IET Image Processing, 2016, 10, 996-1006.	1.4	17
320	Development of visibility and color infallibility of underwater images. , 2016, , .		0
321	Turbidity Underwater Image Restoration Using Spectral Properties and Light Compensation. IEICE Transactions on Information and Systems, 2016, E99.D, 219-227.	0.4	28
322	Haze image moving window threshold segmentation algorithm based on contrast enhancement. , 2016, , .		2
323	Night-time dehazing by fusion. , 2016, , .		91
325	A single image de-hazing algorithm based on hybrid filter. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
326	SmartCam to see through darkness. , 2016, , .		0
327	Underwater image restoration using single color channel prior. , 2016, , .		14
328	Depth estimation for image dehazing of surveillance on education. Journal of Intelligent and Fuzzy Systems, 2016, 31, 2629-2636.	0.8	2
329	Visibility enhancement for remote surveillance system. , 2016, , .		2
330	Underwater image enhancement algorithm based on CLAHE and USM. , 2016, , .		23
331	Classification of color hazy images. , 2016, , .		5
332	Test methodology for rain influence on automotive surround sensors. , 2016, , .		70
333	Image Haze Removal Using Dark Channel Prior and Inverse Image. MATEC Web of Conferences, 2016, 75, 03008.	0.1	3
334	Single image dehazing based on one dimensional linear filtering and adoptive histogram equalization method. , 2016, , .		7
335	Nighttime image dehazing with local atmospheric light and weighted entropy. , 2016, , .		14
336	Haze removal and fuzzy based enhancement of image. , 2016, , .		3
337	Transmission map estimation of weather-degraded images using a hybrid of recurrent fuzzy cerebellar model articulation controller and weighted strategy. Optical Engineering, 2016, 55, 083104.	0.5	2
338	Learning-based single image dehazing via genetic programming. , 2016, , .		2
339	LIME. , 2016, , .		63
340	A haze density aware adaptive perceptual single image haze removal algorithm. , 2016, , .		0
341	Single image fog removal algorithm based on an improved dark channel prior method. , 2016, , .		1
342	Underwater image enhancement method using weighted guided trigonometric filtering and artificial light correction. Journal of Visual Communication and Image Representation, 2016, 38, 504-516.	1.7	82
343	Edge Collapse-Based Dehazing Algorithm for Visibility Restoration in Real Scenes. Journal of Display Technology, 2016, 12, 964-970.	1.3	26

#	ARTICLE	IF	CITATIONS
344	Effective visibility restoration and enhancement of air polluted images with high information fidelity. , 2016, , .		4
345	Dehazing for single image with sky region via self-adaptive weighted least squares model. Optical Engineering, 2016, 55, 043106.	0.5	8
346	A Color Image Database for Haze Model and Dehazing Methods Evaluation. Lecture Notes in Computer Science, 2016, , 109-117.	1.0	20
347	Moving target detection based on features matching of RGB on a foggy day. Proceedings of SPIE, 2016, , .	0.8	0
348	Single image haze removal based on luminance weight prior. , 2016, , .		2
349	A new fast method for foggy image enhancement. , 2016, , .		6
350	Dehazing technique based on dark channel prior model with sky masking and its quantitative analysis. , 2016, , .		8
351	An efficient method for image dehazing. , 2016, , .		11
352	Improving visibility of a fast dehazing method. , 2016, , .		2
353	Underwater Image Enhancement by Dehazing With Minimum Information Loss and Histogram Distribution Prior. IEEE Transactions on Image Processing, 2016, 25, 5664-5677.	6.0	477
354	Super-pixel based single image haze removal. , 2016, , .		8
355	Intelligent system design for variable color temperature LED street light. , 2016, , .		3
356	A robust haze-removal scheme in polarimetric dehazing imaging based on automatic identification of sky region. Optics and Laser Technology, 2016, 86, 145-151.	2.2	27
357	Single image dehazing via reliability guided fusion. Journal of Visual Communication and Image Representation, 2016, 40, 85-97.	1.7	30
358	Scene-adaptive single image dehazing via opening dark channel model. IET Image Processing, 2016, 10, 877-884.	1.4	25
359	DehazeNet: An End-to-End System for Single Image Haze Removal. IEEE Transactions on Image Processing, 2016, 25, 5187-5198.	6.0	1,970
360	Image dehazing base on two-peak channel prior. , 2016, , .		2
361	Convex optimization for fast image dehazing. , 2016, , .		24

#	ARTICLE	IF	CITATIONS
362	Learning deep transmission network for single image dehazing. , 2016, , .		24
363	Single Image Dehazing via Multi-scale Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 154-169.	1.0	808
364	An adaptive factor-based method for improving dark channel prior dehazing. , 2016, , .		1
365	A quadratic optimisation approach for shading and specular recovery from a single image. , 2016, , .		1
366	Inland river image defogging based on optimized contrast enhancement. , 2016, , .		2
367	Blind dehazing using internal patch recurrence. , 2016, , .		58
368	Dehazing with improved heterogeneous atmosphere light estimation and a nonlinear color attenuation prior model. , 2016, , .		9
369	D-HAZY: A dataset to evaluate quantitatively dehazing algorithms. , 2016, , .		213
370	Efficient single image dehazing via scene-adaptive segmentation and improved dark channel model. , 2016, , .		1
371	Single image dehazing with bright object handling. IET Computer Vision, 2016, 10, 817-827.	1.3	11
372	An improved method for visibility enhancement of foggy images. , 2016, , .		2
373	Single Image Dehazing Method under the Influence of Un-uniform Illumination. , 2016, , .		3
374	Atmospheric visibility estimation and image contrast calibration. , 2016, , .		0
375	Fast single image defogging method based on physical model. , 2016, , .		0
376	Image dehazing using dark channel prior and the corrected transmission map. , 2016, , .		6
377	A fast method of fog and haze removal. , 2016, , .		7
378	Texture filtering based physically plausible image dehazing. Visual Computer, 2016, 32, 911-920.	2.5	15
379	Single image dehazing through improved atmospheric light estimation. Multimedia Tools and Applications, 2016, 75, 17081-17096.	2.6	67

#	ARTICLE	IF	CITATIONS
380	Wavelet based image visibility enhancement of IR images. Proceedings of SPIE, 2016, , .	0.8	0
381	Adaptive transmission compensation via human visual system for efficient single image dehazing. Visual Computer, 2016, 32, 653-662.	2.5	9
382	Haze removal for UAV reconnaissance images using layered scattering model. Chinese Journal of Aeronautics, 2016, 29, 502-511.	2.8	24
383	Haze removal based on multiple scattering model with superpixel algorithm. Signal Processing, 2016, 127, 24-36.	2.1	51
384	An effective fusion defogging approach for single sea fog image. Neurocomputing, 2016, 173, 1257-1267.	3.5	39
385	Review of Video and Image Defogging Algorithms and Related Studies on Image Restoration and Enhancement. IEEE Access, 2016, 4, 165-188.	2.6	173
386	A review on dark channel prior based image dehazing algorithms. Eurasip Journal on Image and Video Processing, 2016, 2016, .	1.7	148
387	Single image dehazing via multi-scale gradient domain contrast enhancement. IET Image Processing, 2016, 10, 206-214.	1.4	36
388	Enhancement for Dust-Sand Storm Images. Lecture Notes in Computer Science, 2016, , 842-849.	1.0	16
389	Sparse regularization image denoising based on gradient histogram and non-local self-similarity in WMSN. Optik, 2016, 127, 1743-1747.	1.4	3
390	Real time image and video deweathering: The future prospects and possibilities. Optik, 2016, 127, 829-839.	1.4	10
391	Haze editing with natural transmission. Visual Computer, 2016, 32, 137-147.	2.5	8
392	Underwater Image Super-Resolution by Descattering and Fusion. IEEE Access, 2017, 5, 670-679.	2.6	68
393	Fast Image Dehazing Method Based on Linear Transformation. IEEE Transactions on Multimedia, 2017, 19, 1142-1155.	5.2	183
394	An enhancement method for color retinal images based on image formation model. Computer Methods and Programs in Biomedicine, 2017, 143, 137-150.	2.6	44
396	Single image dehazing based on multiscale product prior and application to vision control. Signal, Image and Video Processing, 2017, 11, 1389-1396.	1.7	8
397	Unsupervised video summarization using cluster analysis for automatic vehicles counting and recognizing. Neurocomputing, 2017, 260, 157-173.	3.5	26
398	Single Image Dehazing Using Fixed Points and Nearest-Neighbor Regularization. Lecture Notes in Computer Science, 2017, , 18-33.	1.0	5

#	ARTICLE	IF	CITATIONS
399	Single image haze removal based on the improved atmospheric scattering model. Neurocomputing, 2017, 260, 180-191.	3.5	54
400	Single image haze removal based on fusion darkness channel prior. Modern Physics Letters B, 2017, 31, 1740037.	1.0	8
401	Sky detection and texture smoothing based high visibility haze removal from images and videos. Computer Animation and Virtual Worlds, 2017, 28, e1776.	0.7	2
402	Instant haze removal from a single image. Infrared Physics and Technology, 2017, 83, 156-163.	1.3	7
403	Fog Density Estimation and Image Defogging Based on Surrogate Modeling for Optical Depth. IEEE Transactions on Image Processing, 2017, 26, 3397-3409.	6.0	29
404	An Efficient Fusion-Based Defogging. IEEE Transactions on Image Processing, 2017, 26, 4217-4228.	6.0	55
405	Single image haze removal based on two steps. Modern Physics Letters B, 2017, 31, 1740038.	1.0	0
406	Dehazing of remote sensing images using improved restoration model based dark channel prior. Imaging Science Journal, 2017, 65, 282-292.	0.2	55
407	Single Image Dehazing via Large Sky Region Segmentation and Multiscale Opening Dark Channel Model. IEEE Access, 2017, 5, 8890-8903.	2.6	46
408	Convolutional Sparse and Low-Rank Coding-Based Rain Streak Removal. , 2017, , .		91
409	Enhancement of low visibility aerial images using histogram truncation and an explicit Retinex representation for balancing contrast and color consistency. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 128, 16-26.	4.9	19
410	Medical X-ray image enhancement method based on dark channel prior. , 2017, , .		9
411	Fast single image dehazing based on a regression model. Neurocomputing, 2017, 245, 10-22.	3.5	34
412	Image de-hazing from the perspective of noise filtering. Computers and Electrical Engineering, 2017, 62, 345-359.	3.0	15
413	Haze Removal Using the Difference- Structure-Preservation Prior. IEEE Transactions on Image Processing, 2017, 26, 1063-1075.	6.0	70
414	Perception oriented transmission estimation for high quality image dehazing. Neurocomputing, 2017, 224, 82-95.	3.5	22
415	LIME: Low-Light Image Enhancement via Illumination Map Estimation. IEEE Transactions on Image Processing, 2017, 26, 982-993.	6.0	1,388
416	Classification of fog situations based on Gaussian mixture model. , 2017, , .		6



#	ARTICLE	IF	CITATIONS
417	Haze visibility enhancement: A Survey and quantitative benchmarking. Computer Vision and Image Understanding, 2017, 165, 1-16.	3.0	124
419	Fast polarimetric dehazing method for visibility enhancement in HSI colour space. Journal of Optics (United Kingdom), 2017, 19, 095606.	1.0	13
420	Efficient single image dehazing and denoising: An efficient multi-scale correlated wavelet approach. Computer Vision and Image Understanding, 2017, 162, 23-33.	3.0	101
421	Underwater Image Dehazing with a Light Field Camera. , 2017, , .		17
422	Hybrid single image dehazing with bright channel and dark channel priors. , 2017, , .		8
423	Image Dehazing Based on Accurate Estimation of Transmission in the Atmospheric Scattering Model. IEEE Photonics Journal, 2017, 9, 1-18.	1.0	23
424	Recent advances in image dehazing. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 410-436.	8.5	108
425	Haze image enhancement based on space fractional-order partial differential equation. , 2017, , .		1
426	Colour image dehazing using near-infrared fusion. IET Image Processing, 2017, 11, 587-594.	1.4	22
427	Dehazing technique for natural scene image based on color analysis and restoration with road edge detection. , 2017, , .		1
428	A rotating polarizing filter approach for image enhancement. , 2017, , .		4
429	Image dehazing using adaptive bi-channel priors on superpixels. Computer Vision and Image Understanding, 2017, 165, 17-32.	3.0	50
430	Modified gain intervention filter based dehazing technique. Journal of Modern Optics, 2017, 64, 2165-2178.	0.6	42
431	Dehazed Image Quality Assessment by Haze-Line Theory. Journal of Physics: Conference Series, 2017, 844, 012045.	0.3	4
432	Real-time rendering of aerial perspective effect based on turbidity estimation. IPSJ Transactions on Computer Vision and Applications, 2017, 9, .	4.4	33
433	Intelligent Vision Processing Technology for Advanced Driver Assistance Systems. , 2017, , 175-206.		0
434	Hardware Implementation for Real-Time Haze Removal. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 1188-1192.	2.1	28
435	Fast Single-Image Dehazing Method Based on Luminance Dark Prior. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1754003.	0.7	11

#	ARTICLE	IF	CITATIONS
436	Underwater image colour constancy based on DSNMF. IET Image Processing, 2017, 11, 38-43.	1.4	17
437	Joint Defogging and Demosaicking. IEEE Transactions on Image Processing, 2017, 26, 3051-3063.	6.0	9
438	Learning Tone Mapping Function for Dehazing. Cognitive Computation, 2017, 9, 95-114.	3.6	3
439	A simple haze removal algorithm to remove haze from videos. , 2017, , .		1
440	Image-based automated haze removal using dark channel prior. , 2017, , .		0
441	Image Haze Removal Using Depth-Based Cluster and Self-Adaptive Parameters. , 2017, , .		3
442	Scene-aware image dehazing based on sky-segmented dark channel prior. IET Image Processing, 2017, 11, 1163-1171.	1.4	30
443	An adaptive image dehazing algorithm based on dark channel prior. , 2017, , .		3
444	Efficient real-time single image dehazing based on color cube constraint. , 2017, , .		3
445	A novel image defogging algorithm based on multi-resolution fusion transform. , 2017, , .		0
446	A Novel Image Defogging Algorithm Based on Improved Bilateral Filtering. , 2017, , .		3
447	Fuzzy logic based vision enhancement using sigmoid function. , 2017, , .		6
448	A survey on visibility enhancement techniques in degraded atmospheric outdoor scenes. , 2017, , .		3
449	Single Image Dehazing Based on Deep Neural Network. , 2017, , .		5
450	Qualitative evaluation of visibility enhancement techniques on SAMEER-TU database for security and surveillance. , 2017, , .		1
451	Single image haze removal based on saliency detection and dark channel prior. , 2017, , .		7
452	Single fog image restoration via multi-scale image fusion. , 2017, , .		4
453	Image De-hazing Based on Polynomial Estimation and Steepest Descent Concept. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
454	Depth and Image Restoration from Light Field in a Scattering Medium. , 2017, , .		23
455	Estimation Algorithm of Atmospheric Light based on Ant Colony Optimization. , 2017, , .		4
456	Image haze removal using dark channel prior and minimizing energy function. , 2017, , .		3
457	Effect of various model parameters on fog removal using dark channel prior. , 2017, , .		2
458	Study of single image fog removal techniques in low visibility foggy images. , 2017, , .		0
459	Mt. Kelud haze removal using color attenuation prior. IOP Conference Series: Materials Science and Engineering, 2017, 185, 012026.	0.3	1
460	Robust Dehaze Algorithm for Degraded Image of CMOS Image Sensors. Sensors, 2017, 17, 2175.	2.1	14
461	Real-time image haze removal using an aperture-division polarimetric camera. Applied Optics, 2017, 56, 942.	2.1	28
462	An Effective and Robust Single Image Dehazing Method Using the Dark Channel Prior. Information (Switzerland), 2017, 8, 57.	1.7	9
463	Image dehazing using non-symmetry and anti-packing model based on dark channel prior. , 2017, , .		1
464	Single image dehazing using non-symmetry and anti-packing model based decomposition and contextual regularization. , 2017, , .		3
465	A novel underwater de-scattering method based on sparse non-negative matrix factorization. , 2017, , .		1
466	Fast single image dehazing based on color cube constraint. , 2017, , .		1
467	A Single Image Dehazing Method Using Average Saturation Prior. Mathematical Problems in Engineering, 2017, 2017, 1-17.	0.6	21
468	A comparative study of various image dehazing techniques. , 2017, , .		4
469	Visibility Restoration for Single Hazy Image Using Dual Prior Knowledge. Mathematical Problems in Engineering, 2017, 2017, 1-10.	0.6	4
470	Incident Light Frequency-Based Image Defogging Algorithm. Mathematical Problems in Engineering, 2017, 2017, 1-8.	0.6	1
471	A Fast Single Image Haze Removal Method Based on Human Retina Property. IEICE Transactions on Information and Systems, 2017, E100.D, 211-214.	0.4	29

#	ARTICLE	IF	CITATIONS
472	Robust multi-sensor bootstrap tracking filter for quality of service estimation. , 2017, , .		0
473	Classification of hazy and non-hazy images. , 2017, , .		9
474	Effect of patch size and haziness factor on visibility using DCP. , 2017, , .		1
475	Scattered particles removal in single image based on illumination information. , 2017, , .		0
476	Real-time dehazing via multiscale products for vision control. , 2017, , .		0
477	Reproducible Fog Simulation for Testing Automotive Surround Sensors. , 2017, , .		30
478	Iterative Refinement of Transmission Map for Stereo Image Defogging Using a Dual Camera Sensor. Sensors, 2017, 17, 2861.	2.1	3
479	Single Image Dehazing Using Invariance Principle. IEICE Transactions on Information and Systems, 2017, E100.D, 3068-3072.	0.4	0
480	A Two-Step Approach for Underwater Image Enhancement. , 2017, , .		1
481	Removing Haze Particles From Single Image via Exponential Inference With Support Vector Data Description. IEEE Transactions on Multimedia, 2018, 20, 2503-2512.	5.2	35
482	Applications of the Gray Degree-Based Factor Analysis on Cloud Image to Improve the Accuracy of Weather Recognition. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 2117-2129.	0.7	0
483	Haze removal for unmanned aerial vehicle aerial video based on spatial&temporal coherence optimisation. IET Image Processing, 2018, 12, 88-97.	1.4	13
484	A component-driven distributed framework for real-time video dehazing. Multimedia Tools and Applications, 2018, 77, 11259-11276.	2.6	3
485	Real-time framework for image dehazing based on linear transmission and constant-time airlight estimation. Information Sciences, 2018, 436-437, 108-130.	4.0	20
486	Optimal Transmission Estimation via Fog Density Perception for Efficient Single Image Defogging. IEEE Transactions on Multimedia, 2018, 20, 1699-1711.	5.2	23
487	Investigation on principle of polarization-difference imaging in turbid conditions. Optics Communications, 2018, 413, 30-38.	1.0	12
488	Haze Removal Using Radial Basis Function Networks for Visibility Restoration Applications. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3828-3838.	7.2	35
489	Dehazing of remote sensing images using fourth&order partial differential equations based trilateral filter. IET Computer Vision, 2018, 12, 208-219.	1.3	39

#	ARTICLE	IF	CITATIONS
490	Dehazing for Multispectral Remote Sensing Images Based on a Convolutional Neural Network With the Residual Architecture. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1645-1655.	2.3	77
491	A real-time framework for video Dehazing using bounded transmission and controlled Gaussian filter. Multimedia Tools and Applications, 2018, 77, 26315-26350.	2.6	6
492	Dehazing of outdoor images using notch based integral guided filter. Multimedia Tools and Applications, 2018, 77, 27363-27386.	2.6	38
493	Effective haze removal under mixed domain and retract neighborhood. Neurocomputing, 2018, 293, 29-40.	3.5	9
494	Image dehazing by artificial multiple-exposure image fusion. Signal Processing, 2018, 149, 135-147.	2.1	191
495	Semantic Foggy Scene Understanding with Synthetic Data. International Journal of Computer Vision, 2018, 126, 973-992.	10.9	601
496	A Cascaded Convolutional Neural Network for Single Image Dehazing. IEEE Access, 2018, 6, 24877-24887.	2.6	80
497	A constrained total variation model for single image dehazing. Pattern Recognition, 2018, 80, 196-209.	5.1	29
498	Visibility enhancement of images degraded by hazy weather conditions using modified non-local approach. Optik, 2018, 163, 99-113.	1.4	8
499	G-L fractional differential operator modified using auto-correlation function: Texture enhancement in images. Ain Shams Engineering Journal, 2018, 9, 1689-1704.	3.5	12
500	Modified Visibility Restoration-Based Contrast Enhancement Algorithm for Colour Foggy Images. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2018, 35, 223-236.	2.1	3
501	Light source point cluster selection-based atmospheric light estimation. Multimedia Tools and Applications, 2018, 77, 2947-2958.	2.6	7
502	Single image dehazing using second-generation wavelet transforms and the mean vector L2-norm. Visual Computer, 2018, 34, 675-688.	2.5	30
503	Layered Scene Models from Single Hazy Images. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2167-2179.	2.9	2
504	Single Image Dehazing Based on the Physical Model and MSRCR Algorithm. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2190-2199.	5.6	88
505	Remote sensing image enhancement using hazy image model. Optik, 2018, 155, 139-148.	1.4	24
506	Haze removal method for natural restoration of images with sky. Neurocomputing, 2018, 275, 499-510.	3.5	48
507	Color and sharpness assessment of single image dehazing. Multimedia Tools and Applications, 2018, 77, 15409-15430.	2.6	20

#	ARTICLE	IF	CITATIONS
508	The Adaptive Fractional Order Differential Model for Image Enhancement Based on Segmentation. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1854005.	0.7	9
509	Single Image Defogging Based on Step Estimation of Transmissivity. Communications in Computer and Information Science, 2018, , 74-84.	0.4	4
510	Learning intensity and detail mapping parameters for dehazing. Multimedia Tools and Applications, 2018, 77, 15695-15720.	2.6	7
511	An improved linear depth model for single image fog removal. Multimedia Tools and Applications, 2018, 77, 19719-19744.	2.6	12
512	Color Balance and Fusion for Underwater Image Enhancement. IEEE Transactions on Image Processing, 2018, 27, 379-393.	6.0	635
513	A Generative Net for Haze Removal in UAV's Visual Fieldwork. , 2018, , .		0
514	Joint Haze-relevant Features Selection and Transmission Estimation via Deep Belief Network for Efficient Single Image Dehazing. , 2018, , .		2
515	Single Image Haze Removal: Comparative Studies with Advanced Matting Approaches. Journal of Physics: Conference Series, 2018, 1069, 012145.	0.3	0
516	O-HAZE: A Dehazing Benchmark with Real Hazy and Haze-Free Outdoor Images. , 2018, , .		393
517	Gated Fusion Network for Single Image Dehazing. , 2018, , .		552
518	Multi-scale Single Image Dehazing Using Perceptual Pyramid Deep Network. , 2018, , .		106
519	Fast Single Image Dehazing via Positive Correlation. , 2018, , .		0
520	Fast Image Dehazing Using Color Attributes Prior. , 2018, , .		0
521	Underwater Image Enhancement Algorithm Adapted to Different Turbidities Ranges. , 2018, , .		1
522	Fast Single Image Haze Removal Method based on Atmospheric Scattering Model. IFAC-PapersOnLine, 2018, 51, 211-216.	0.5	5
523	Removal of Fog Effect from Highly Foggy Images Using Depth Estimation and Fuzzy Contrast Enhancement Method. , 2018, , .		0
524	Decomposition of reflection and scattering by multiple-weighted measurements. IPSJ Transactions on Computer Vision and Applications, 2018, 10, .	4.4	1
525	Single Image Dehazing via Relativity-of-Gaussian. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
526	Visibility Enhancement of Fog Degraded Image Sequences on SAMEER TU Dataset Using Dark Channel Strategy. , 2018, , .		3
527	Haze Simulation Based on a Physical Modeling and Improved Image Visibility Restoration. , 2018, , .		0
528	Haze Density Estimation and Dark Channel Prior Based Image Defogging. , 2018, , .		2
529	Real-Time Grayscale Dehazing Scheme For Car Vision. International Symposium on Affective Science and Engineering, 2018, ISASE2018, 1-6.	0.1	1
530	Cycle-Dehaze: Enhanced CycleGAN for Single Image Dehazing. , 2018, , .		316
531	An Improved Algorithm for Single Image Haze Removal. , 2018, , .		0
532	Image Defogging algorithm Based on Image Bright and Dark Channels*. , 2018, , .		1
533	Low Visibility License Plate Area Detection Based on Dark Channel Prior Method and Top Hat Operation. , 2018, , .		2
534	Single image haze removal with approximate radiance darkness prior. Modern Physics Letters B, 2018, 32, 1840086.	1.0	3
535	Quality Enhancement of Foggy Images Comprising of Large Sky Region on SAMEER TU Dataset. , 2018, , .		3
536	Domain Adaptation and Adaptive Information Fusion for Object Detection on Foggy Days. Sensors, 2018, 18, 3286.	2.1	4
537	Residual Learning Dehazing Net. Lecture Notes in Computer Science, 2018, , 136-145.	1.0	0
538	Minimum preserving subsampling-based fast image de-fogging. Journal of Modern Optics, 2018, 65, 2103-2123.	0.6	14
539	Effective Local Airlight Estimation for Image Dehazing. , 2018, , .		12
540	Fusion-based image de-fogging using dual tree complex wavelet transform. International Journal of Wavelets, Multiresolution and Information Processing, 2018, 16, 1850054.	0.9	10
541	Fast Removal of Rain Streaks From a Single Image via a Shape Prior. IEEE Access, 2018, 6, 60069-60078.	2.6	10
542	Single Foggy Image Restoration Under Hardy Space. , 2018, , .		0
543	I-HAZE: A Dehazing Benchmark with Real Hazy and Haze-Free Indoor Images. Lecture Notes in Computer Science, 2018, , 620-631.	1.0	159

#	ARTICLE	IF	CITATIONS
544	Single Image Haze Removal with Improved Atmospheric Light Estimation. Journal of Physics: Conference Series, 2018, 1098, 012019.	0.3	2
545	Robust Haze Removal Via Joint Deep Transmission and Scene Propagation. , 2018, , .		3
546	Dense Hazy Image Enhancement Based on Generalized Imaging Model. , 2018, , .		2
547	Adaptive Patch Based Convolutional Neural Network for Robust Dehazing. , 2018, , .		15
548	Single Image Dehazing Via a Joint Deep Modeling. , 2018, , .		6
549	A single image dehazing method based on sky recognition and average saturation prior. , 2018, , .		0
550	Pedestrian Detection in Haze Environments Using Dark Channel Prior and Histogram of Oriented Gradient. , 2018, , .		3
551	Haze removal Methods: A Comprehensive Review. , 2018, , .		4
552	Learning a Patch Quality Comparator for Single Image Dehazing. IEEE Transactions on Image Processing, 2018, 27, 4598-4607.	6.0	71
553	Single Image Dehazing with Lab Analysis. , 2018, , .		2
554	Image Haze Removal via Reference Retrieval and Scene Prior. IEEE Transactions on Image Processing, 2018, 27, 4395-4409.	6.0	34
555	Saliency-based dark channel prior model for single image haze removal. IET Image Processing, 2018, 12, 1049-1055.	1.4	20
556	Image Dehazing Using Residual-Based Deep CNN. IEEE Access, 2018, 6, 26831-26842.	2.6	96
557	Single Image Dehazing With Depth-Aware Non-Local Total Variation Regularization. IEEE Transactions on Image Processing, 2018, 27, 5178-5191.	6.0	79
558	Perception Oriented Haze Image Definition Restoration by Basing on Physical Optics Model. IEEE Photonics Journal, 2018, 10, 1-16.	1.0	9
559	A Light Dual-Task Neural Network for Haze Removal. IEEE Signal Processing Letters, 2018, 25, 1231-1235.	2.1	13
560	Gamma-Correction-Based Visibility Restoration for Single Hazy Images. IEEE Signal Processing Letters, 2018, 25, 1084-1088.	2.1	46
561	Multi-Scale Residual Convolutional Neural Network for Haze Removal of Remote Sensing Images. Remote Sensing, 2018, 10, 945.	1.8	56



#	ARTICLE	IF	CITATIONS
562	The performance evaluation of the Cat and Particle Swarm Optimization Techniques in the image enhancement. , 2018, , .		1
563	Single fog image restoration with multi-focus image fusion. Journal of Visual Communication and Image Representation, 2018, 55, 586-595.	1.7	14
564	Single Image Haze Removal Based on Global-Local Optimization for Depth Map. Lecture Notes in Computer Science, 2018, , 117-127.	1.0	1
565	Single Image Haze Removal Method Using Conditional Random Fields. IEEE Signal Processing Letters, 2018, 25, 818-822.	2.1	6
566	Impact of Dehazing on Underwater Marker Detection for Augmented Reality. Frontiers in Robotics and AI, 2018, 5, 92.	2.0	11
567	Automatic hazy image enhancement via haze distribution estimation. Advances in Mechanical Engineering, 2018, 10, 168781401876948.	0.8	4
568	Towards photography through realistic fog. , 2018, , .		66
569	Algorithm and Architecture Design of a Hardware-Efficient Image Dehazing Engine. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2146-2161.	5.6	18
570	Underwater image restoration algorithm for free-ascending deep-sea tripods. Optics and Laser Technology, 2019, 110, 129-134.	2.2	14
571	Visibility dehazing based on channel-weighted analysis and illumination tuning. Multimedia Tools and Applications, 2019, 78, 1831-1856.	2.6	3
572	Detail Preserved Single Image Dehazing Algorithm Based on Airlight Refinement. IEEE Transactions on Multimedia, 2019, 21, 351-362.	5.2	32
573	Transmission Estimation by Complex Assumption with Occlusion Handling. Mathematical Problems in Engineering, 2019, 2019, 1-14.	0.6	1
574	Let You See in Sand Dust Weather: A Method Based on Halo-Reduced Dark Channel Prior Dehazing for Sand-Dust Image Enhancement. IEEE Access, 2019, 7, 116722-116733.	2.6	50
575	A Contrast-Guided Approach for the Enhancement of Low-Lighting Underwater Images. Journal of Imaging, 2019, 5, 79.	1.7	28
576	Stacked dense networks for single-image snow removal. Neurocomputing, 2019, 367, 152-163.	3.5	21
577	Scale Self-Adaption Tracking Method of Defog-PSA-Kcf Defogging and Dimensionality Reduction of Foreign Matter Intrusion Along Railway Lines. IEEE Access, 2019, 7, 126720-126733.	2.6	12
578	Hardware Implementation for Haze Removal With Adaptive Filtering. IEEE Access, 2019, 7, 142498-142506.	2.6	6
579	Improvement of the Algorithm Based on Dark Channel Prior Defogging. IOP Conference Series: Earth and Environmental Science, 2019, 300, 022045.	0.2	1

#	ARTICLE	IF	CITATIONS
580	Single Image Dehazing from Repeated Averaging Filters. , 2019, , .		3
581	Accelerated haze removal for a single image by dark channel prior. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2019, 20, 1109-1118.	1.5	9
582	Single Image Dehazing using CNN. <i>Procedia Computer Science</i> , 2019, 147, 124-130.	1.2	26
583	A Novel Total Generalized Variation Model for Image Dehazing. <i>Journal of Mathematical Imaging and Vision</i> , 2019, 61, 1329-1341.	0.8	12
584	Single image rain removal via a deep decompositionâ€“composition network. <i>Computer Vision and Image Understanding</i> , 2019, 186, 48-57.	3.0	54
585	A Wireless Sensor Network for Monitoring Environmental Quality in the Manufacturing Industry. <i>IEEE Access</i> , 2019, 7, 78108-78119.	2.6	21
586	DD-CycleGAN: Unpaired image dehazing via Double-Discriminator Cycle-Consistent Generative Adversarial Network. <i>Engineering Applications of Artificial Intelligence</i> , 2019, 82, 263-271.	4.3	39
587	Single Image Dehazing using Positive Correlation under Gradient Constraint. , 2019, , .		1
588	Proper Guidance Image Generation Based on Saliency Factor for Better Transmission Refinement in Image Dehazing. , 2019, , .		0
589	Fog removal in images using improved dark channel prior and contrast limited adaptive histogram equalization. <i>Multimedia Tools and Applications</i> , 2019, 78, 23281-23307.	2.6	20
590	VisNet: Deep Convolutional Neural Networks for Forecasting Atmospheric Visibility. <i>Sensors</i> , 2019, 19, 1343.	2.1	49
591	Remote Sensing Image Haze Removal Using Gamma-Correction-Based Dehazing Model. <i>IEEE Access</i> , 2019, 7, 5250-5261.	2.6	8
592	Fast snow removal algorithm based on the maximum value of the degree of polarization and angle of polarization. <i>Physica Scripta</i> , 2019, 94, 045501.	1.2	4
593	Automatic image enhancement by learning adaptive patch selection. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2019, 20, 206-221.	1.5	2
594	Estimation of atmospheric light based on gaussian distribution. <i>Multimedia Tools and Applications</i> , 2019, 78, 33401-33414.	2.6	1
595	IDeRs: Iterative dehazing method for single remote sensing image. <i>Information Sciences</i> , 2019, 489, 50-62.	4.0	38
596	An End-to-End Image Dehazing Method Based on Deep Learning. <i>Journal of Physics: Conference Series</i> , 2019, 1169, 012046.	0.3	1
597	Single Image Haze Removal via Region Detection Network. <i>IEEE Transactions on Multimedia</i> , 2019, 21, 2545-2560.	5.2	38

#	ARTICLE	IF	CITATIONS
598	Haze-removal polarimetric imaging schemes with the consideration of airlight's circular polarization effect. <i>Optik</i> , 2019, 182, 1099-1105.	1.4	10
599	A Unified Variational Model for Single Image Dehazing. <i>IEEE Access</i> , 2019, 7, 15722-15736.	2.6	37
600	Quality Evaluation of Image Dehazing Methods Using Synthetic Hazy Images. <i>IEEE Transactions on Multimedia</i> , 2019, 21, 2319-2333.	5.2	129
601	Multi-scale Optimal Fusion model for single image dehazing. <i>Signal Processing: Image Communication</i> , 2019, 74, 253-265.	1.8	73
602	Snowflakes Removal for Single Image Based on Model Pruning and Generative Adversarial Network. , 2019, , .		3
603	Single Remote Sensing Image Dehazing Using a Prior-Based Dense Attentive Network. <i>Remote Sensing</i> , 2019, 11, 3008.	1.8	30
604	Single-Image Dehazing Using Color Attenuation Prior Based on Haze-Lines. , 2019, , .		7
605	GridDehazeNet: Attention-Based Multi-Scale Network for Image Dehazing. , 2019, , .		411
606	Rain-streaks Detection and Removal In Single Image Using Curvelet Transform. , 2019, , .		0
607	Fusion Based Single Image De-hazing. , 2019, , .		2
608	High-Resolution Single Image Dehazing Using Encoder-Decoder Architecture. , 2019, , .		20
609	Soft Tissue Removal in X-Ray Images by Half Window Dark Channel Prior. , 2019, , .		3
610	Image Dehazing Based on Luminance Stretching. , 2019, , .		9
611	Nighttime Haze Removal Using Bilateral Filtering and Adaptive Dark Channel Prior. , 2019, , .		3
612	S-HAZE: Dataset Consisting of Real World Ground Truth and Hazy Images of Varying Haze Density with No-Sky, Little Sky and Large Sky Regions. , 2019, , .		0
613	Real-Time Video Dehazing for Industrial Image Processing. , 2019, , .		1
614	Image Dehazing Network Based on Dilated Convolution Feature Extraction. , 2019, , .		0
615	Single Fog Image dehazing via fast Multi-scale Image Fusion. <i>IFAC-PapersOnLine</i> , 2019, 52, 225-230.	0.5	1

#	ARTICLE	IF	CITATIONS
616	Performance Comparison of Dehazing Algorithms on different platforms. , 2019, , .		0
617	Dehazing with Recovery Level Map: Suppressing Over-Enhancement and Residual Haze. , 2019, , .		0
618	Underwater Image Enhancement Using SWT Based Image Fusion and Colour Correction. , 2019, , .		6
619	Evaluation of image dehazing techniques based on a realistic benchmark. , 2019, , .		1
620	VLSI Implementation for an Adaptive Haze Removal Method. IEEE Access, 2019, 7, 173977-173988.	2.6	8
621	End-to-End Conditional GAN-based Architectures for Image Colourisation. , 2019, , .		13
622	AAGAN: Enhanced Single Image Dehazing With Attention-to-Attention Generative Adversarial Network. IEEE Access, 2019, 7, 173485-173498.	2.6	13
623	Single Image Dehazing via NIN-DehazeNet. IEEE Access, 2019, 7, 181348-181356.	2.6	19
624	Fast Image Defogging Algorithm Design Based on Dark Channel Prior. , 2019, , .		0
625	Single Image Dehazing using Adaptive Gamma Correction Method. , 2019, , .		5
626	Semantic Understanding of Foggy Scenes with Purely Synthetic Data. , 2019, , .		36
627	A Comprehensive Review of Computational Dehazing Techniques. Archives of Computational Methods in Engineering, 2019, 26, 1395-1413.	6.0	67
628	A novel neural network for super-resolution remote sensing image reconstruction. International Journal of Remote Sensing, 2019, 40, 2375-2385.	1.3	9
629	BDPK: Bayesian Dehazing Using Prior Knowledge. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2349-2362.	5.6	30
630	Benchmarking Single-Image Dehazing and Beyond. IEEE Transactions on Image Processing, 2019, 28, 492-505.	6.0	1,002
632	An Efficient Algorithm for Image Haze Removal in Outdoor Environment. Advances in Intelligent Systems and Computing, 2019, , 319-331.	0.5	2
633	AIPNet: Image-to-Image Single Image Dehazing With Atmospheric Illumination Prior. IEEE Transactions on Image Processing, 2019, 28, 381-393.	6.0	103
634	Learning Bilevel Layer Priors for Single Image Rain Streaks Removal. IEEE Signal Processing Letters, 2019, 26, 307-311.	2.1	38

#	ARTICLE	IF	CITATIONS
635	DeeptransMap: a considerably deep transmission estimation network for single image dehazing. Multimedia Tools and Applications, 2019, 78, 30627-30649.	2.6	3
636	Single Image Defogging Based on Illumination Decomposition for Visual Maritime Surveillance. IEEE Transactions on Image Processing, 2019, 28, 2882-2897.	6.0	48
637	Enhancement of Low-Lighting Underwater Images Using Dark Channel Prior and Fast Guided Filters. Lecture Notes in Computer Science, 2019, , 55-65.	1.0	3
638	A Review on Haze Removal Techniques. Lecture Notes in Computational Vision and Biomechanics, 2019, , 113-123.	0.5	4
639	A robust framework for visibility enhancement of foggy images. Engineering Science and Technology, an International Journal, 2019, 22, 22-32.	2.0	7
640	Image De-Hazing Via Gradient Optimized Adaptive Forward-Reverse Flow-Based Partial Differential Equation. Journal of Circuits, Systems and Computers, 2019, 28, 1950099.	1.0	10
641	Deep Video Dehazing With Semantic Segmentation. IEEE Transactions on Image Processing, 2019, 28, 1895-1908.	6.0	119
642	A Novel Dehazing Method for Color Fidelity and Contrast Enhancement on Mobile Devices. IEEE Transactions on Consumer Electronics, 2019, 65, 47-56.	3.0	11
643	Design of estimators for restoration of images degraded by haze using genetic programming. Swarm and Evolutionary Computation, 2019, 44, 49-63.	4.5	11
644	Objective Quality Evaluation of Dehazed Images. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2879-2892.	4.7	134
645	VLSI Design of an Efficient Flicker-Free Video Defogging Method for Real-Time Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 238-251.	5.6	23
646	High-speed video haze removal algorithm for embedded systems. Journal of Real-Time Image Processing, 2019, 16, 1117-1128.	2.2	6
647	Non-local Dehazing enhanced by color gradient. Multimedia Tools and Applications, 2019, 78, 5701-5713.	2.6	0
648	Learning deep transmission network for efficient image dehazing. Multimedia Tools and Applications, 2019, 78, 213-236.	2.6	8
649	â€œBlindâ€•visual inference by composition. Pattern Recognition Letters, 2019, 124, 39-54.	2.6	0
650	A Review on Intelligence Dehazing and Color Restoration for Underwater Images. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1820-1832.	5.9	115
651	A fast image dehazing method that does not introduce color artifacts. Journal of Real-Time Image Processing, 2020, 17, 607-622.	2.2	20
652	Tight lower bound on transmission for single image dehazing. Visual Computer, 2020, 36, 191-209.	2.5	11

#	ARTICLE	IF	CITATIONS
653	Color-aware depth multi-task learning for object detection in haze. <i>Neural Computing and Applications</i> , 2020, 32, 6591-6599.	3.2	3
654	A novel imaging system for underwater haze enhancement. <i>International Journal of Information Technology (Singapore)</i> , 2020, 12, 85-90.	1.8	4
655	Curriculum Model Adaptation with Synthetic and Real Data for Semantic Foggy Scene Understanding. <i>International Journal of Computer Vision</i> , 2020, 128, 1182-1204.	10.9	69
656	Single Image Dehazing via Multi-scale Convolutional Neural Networks with Holistic Edges. <i>International Journal of Computer Vision</i> , 2020, 128, 240-259.	10.9	210
657	A joint deep neural networks-based method for single nighttime rainy image enhancement. <i>Neural Computing and Applications</i> , 2020, 32, 1913-1926.	3.2	12
658	Adaptive dehazing control factor based fast single image dehazing. <i>Multimedia Tools and Applications</i> , 2020, 79, 891-918.	2.6	10
659	A better way to monitor haze through image based upon the adjusted LeNet-5 CNN model. <i>Signal, Image and Video Processing</i> , 2020, 14, 455-463.	1.7	11
660	A single image dehazing model using total variation and inter-channel correlation. <i>Multidimensional Systems and Signal Processing</i> , 2020, 31, 431-464.	1.7	7
661	PDR-Net: Perception-Inspired Single Image Dehazing Network With Refinement. <i>IEEE Transactions on Multimedia</i> , 2020, 22, 704-716.	5.2	92
662	Salient Features for Moving Object Detection in Adverse Weather Conditions During Night Time. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 3317-3331.	5.6	17
663	Densely pyramidal residual network for UAV-based railway images dehazing. <i>Neurocomputing</i> , 2020, 371, 124-136.	3.5	26
664	Single Image Numerical Iterative Dehazing Method Based on Local Physical Features. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 3544-3557.	5.6	14
665	Single image dehazing based on fusion strategy. <i>Neurocomputing</i> , 2020, 378, 9-23.	3.5	27
666	Fast Single Image Dehazing Using Saturation Based Transmission Map Estimation. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 1985-1998.	6.0	60
667	IDGCP: Image Dehazing Based on Gamma Correction Prior. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 3104-3118.	6.0	93
668	An Underwater Image Enhancement Benchmark Dataset and Beyond. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 4376-4389.	6.0	805
669	DSP-based image real-time dehazing optimization for improved dark-channel prior algorithm. <i>Journal of Real-Time Image Processing</i> , 2020, 17, 1675-1684.	2.2	16
670	A novel dark channel prior guided variational framework for underwater image restoration. <i>Journal of Visual Communication and Image Representation</i> , 2020, 66, 102732.	1.7	59

#	ARTICLE	IF	CITATIONS
671	De-smokeGCN: Generative Cooperative Networks for Joint Surgical Smoke Detection and Removal. IEEE Transactions on Medical Imaging, 2020, 39, 1615-1625.	5.4	18
672	DRCDN: learning deep residual convolutional dehazing networks. Visual Computer, 2020, 36, 1797-1808.	2.5	130
673	Localization of radiance transformation for image dehazing in wavelet domain. Neurocomputing, 2020, 381, 141-151.	3.5	35
674	Multi-Scale Deep Residual Learning-Based Single Image Haze Removal via Image Decomposition. IEEE Transactions on Image Processing, 2020, 29, 3153-3167.	6.0	97
675	Adaptive Single Image Dehazing Using Joint Local-Global Illumination Adjustment. IEEE Transactions on Multimedia, 2020, 22, 1485-1495.	5.2	27
676	CNN-Based Simultaneous Dehazing and Depth Estimation. , 2020, , .		9
677	Approaches for Video Dehazing. , 2020, , .		0
678	A survey on analysis and implementation of state-of-the-art haze removal techniques. Journal of Visual Communication and Image Representation, 2020, 72, 102912.	1.7	22
679	Uneven Image Dehazing by Heterogeneous Twin Network. IEEE Access, 2020, 8, 118485-118496.	2.6	2
680	An Image Dehazing Algorithm Based on the Improved CGAN. IOP Conference Series: Materials Science and Engineering, 2020, 768, 072012.	0.3	1
681	Single Image Dehazing Algorithm Analysis with Hyperspectral Images in the Visible Range. Sensors, 2020, 20, 6690.	2.1	5
682	An Efficient Residual-Based Method for Railway Image Dehazing. Sensors, 2020, 20, 6204.	2.1	4
683	Haze Removal by Modeling the Scattering Properties of the Medium. IEEE Signal Processing Letters, 2020, 27, 1155-1159.	2.1	1
684	An airlight estimation method for image dehazing based on gray projection. Multimedia Tools and Applications, 2020, 79, 27185-27203.	2.6	4
685	An efficient single image haze removal algorithm for computer vision applications. Multimedia Tools and Applications, 2020, 79, 28239-28263.	2.6	3
686	NH-HAZE: An Image Dehazing Benchmark with Non-Homogeneous Hazy and Haze-Free Images. , 2020, , .		168
687	NonLocal Channel Attention for NonHomogeneous Image Dehazing. , 2020, , .		19
688	L <sup>2</sup> UWE: A Framework for the Efficient Enhancement of Low-Light Underwater Images Using Local Contrast and Multi-Scale Fusion. , 2020, , .		42

#	ARTICLE	IF	CITATIONS
689	SDTCN: Similarity Driven Transmission Computing Network for Image Dehazing. , 2020, , .		5
690	Underwater Image Enhancement by Multiscale Fusion Technique and Dehazing. , 2020, , .		1
691	Single Image Dehazing using a Novel Histogram Transformation Network. , 2020, , .		3
692	Iterative Residual Network for Image Dehazing. IEEE Access, 2020, 8, 167693-167710.	2.6	6
693	Improved Single Image Haze Removal for Intelligent Driving. Pattern Recognition and Image Analysis, 2020, 30, 523-529.	0.6	3
694	Single Image Haze Removal using a Generative Adversarial Network. , 2020, , .		10
695	Low-light image enhancement algorithm based on an atmospheric physical model. Multimedia Tools and Applications, 2020, 79, 32973-32997.	2.6	10
696	CSIDNet: Compact single image dehazing network for outdoor scene enhancement. Multimedia Tools and Applications, 2020, 79, 30769-30784.	2.6	8
697	Variational Single Image Dehazing for Enhanced Visualization. IEEE Transactions on Multimedia, 2020, 22, 2537-2550.	5.2	25
698	A Novel Image Dehazing Algorithm via Adaptive Gamma-Correction and Modified AMEF. IEEE Access, 2020, 8, 207275-207286.	2.6	4
699	VROHI: Visibility Recovery for Outdoor Hazy Image in Scattering Media. IEEE Photonics Journal, 2020, 12, 1-15.	1.0	5
700	Fusion of Mathematical Morphology with Adaptive Gamma Correction for Dehazing and Visibility Enhancement of Images. , 2020, , .		2
701	Unsupervised Haze Removal for High-Resolution Optical Remote-Sensing Images Based on Improved Generative Adversarial Networks. Remote Sensing, 2020, 12, 4162.	1.8	21
702	Misty Image Repair System with Dark Channel Prior and CLAHE. Journal of Physics: Conference Series, 2020, 1569, 032069.	0.3	0
703	Application of Image Restoration in On-Line Detection of Optical Element Damage. IOP Conference Series: Earth and Environmental Science, 2020, 510, 022008.	0.2	0
704	Saturation Based Iterative Approach for Single Image Dehazing. IEEE Signal Processing Letters, 2020, 27, 665-669.	2.1	21
705	Model based Dehazing Algorithms for Hazy Image Restoration â€“ A Review. , 2020, , .		1
706	Efficient Method and Architecture for Real-Time Video Defogging. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6536-6546.	4.7	20



#	ARTICLE	IF	CITATIONS
707	Day and Night-Time Dehazing by Local Airlight Estimation. IEEE Transactions on Image Processing, 2020, 29, 6264-6275.	6.0	57
708	Task-Oriented Network for Image Dehazing. IEEE Transactions on Image Processing, 2020, 29, 6523-6534.	6.0	37
709	Learning an Enhancement Convolutional Neural Network for Multi-degraded Images. Sensing and Imaging, 2020, 21, 1.	1.0	5
710	A convex single image dehazing model via sparse dark channel prior. Applied Mathematics and Computation, 2020, 375, 125085.	1.4	5
711	Deep joint neural model for single image haze removal and color correction. Information Sciences, 2020, 541, 16-35.	4.0	9
712	Effective Data-Driven Technology for Efficient Vision-Based Outdoor Industrial Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 4344-4354.	7.2	9
713	Underwater Image Enhancement based on Histogram Manipulation and Multiscale Fusion. Procedia Computer Science, 2020, 171, 941-950.	1.2	13
714	Single Image Haze Removal Using Deep Cellular Automata Learning. IEEE Access, 2020, 8, 103181-103199.	2.6	14
715	Haze removal with automatic recovery of atmospheric light. International Journal of Modern Physics B, 2020, 34, 2040064.	1.0	0
716	Adaptive Contrast Enhancement of Optical Imagery Based on Level of Detail (LOD). Remote Sensing, 2020, 12, 1555.	1.8	1
717	Real-time image dehazing by superpixels segmentation and guidance filter. Journal of Real-Time Image Processing, 2021, 18, 1555-1575.	2.2	23
718	DSNet: Joint Semantic Learning for Object Detection in Inclement Weather Conditions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 43, 1-1.	9.7	75
719	Lower Bound on Transmission Using Non-Linear Bounding Function in Single Image Dehazing. IEEE Transactions on Image Processing, 2020, 29, 4832-4847.	6.0	49
720	A Spatial-Spectral Adaptive Haze Removal Method for Visible Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6168-6180.	2.7	19
721	Adaptive Tolerance Dehazing Algorithm Based on Dark Channel Prior. Algorithms, 2020, 13, 45.	1.2	3
722	A DCP-based Method for Improving Laparoscopic Images. Journal of Medical Systems, 2020, 44, 78.	2.2	3
723	Haze image restoration based on physical optics model using raspberry pi B+V1.2. Materials Today: Proceedings, 2020, 48, 155-155.	0.9	1
724	NLDN: Non-local dehazing network for dense haze removal. Neurocomputing, 2020, 410, 363-373.	3.5	48

#	ARTICLE	IF	CITATIONS
725	A Method for Removing PET/CT Imaging Artifact Using Combination of Standard Deviation and Computational Geometry Technique. <i>Procedia Computer Science</i> , 2020, 167, 969-978.	1.2	6
726	Haze Removal of Railway Monitoring Images Using Multi-Scale Residual Network. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 7460-7473.	4.7	19
727	Sand-Dust Image Restoration Based on Reversing the Blue Channel Prior. <i>IEEE Photonics Journal</i> , 2020, 12, 1-16.	1.0	22
728	Single image desmogging using oblique gradient profile prior and variational minimization. <i>Multidimensional Systems and Signal Processing</i> , 2020, 31, 1259-1275.	1.7	7
729	Deep Residual Haze Network for Image Dehazing and Deraining. <i>IEEE Access</i> , 2020, 8, 9488-9500.	2.6	35
730	Local Proximity for Enhanced Visibility in Haze. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 2478-2491.	6.0	12
731	Generating High-Quality and High-Resolution Seamless Satellite Imagery for Large-Scale Urban Regions. <i>Remote Sensing</i> , 2020, 12, 81.	1.8	14
732	Underwater image enhancement using an edge-preserving filtering Retinex algorithm. <i>Multimedia Tools and Applications</i> , 2020, 79, 17257-17277.	2.6	45
733	An Improved Image Dehazing Technique using CLAHE and Guided Filter. , 2020, , .		12
734	Normalised gamma transformation-based contrast-limited adaptive histogram equalisation with colour correction for sand-dust image enhancement. <i>IET Image Processing</i> , 2020, 14, 747-756.	1.4	43
735	Image Haze Removal Based on Superpixels and Markov Random Field. <i>IEEE Access</i> , 2020, 8, 60728-60736.	2.6	6
736	Underwater image enhancement based on DCP and depth transmission map. <i>Multimedia Tools and Applications</i> , 2020, 79, 20373-20390.	2.6	33
737	A novel haze image steganography method via cover-source switching. <i>Journal of Visual Communication and Image Representation</i> , 2020, 70, 102814.	1.7	7
738	FAOD-Net: A Fast AOD-Net for Dehazing Single Image. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-11.	0.6	12
739	Accuracy Improvement of Binocular Vision Measurement System for Slope Deformation Monitoring. <i>Sensors</i> , 2020, 20, 1994.	2.1	13
740	Annotation and Benchmarking of a Video Dataset under Degraded Complex Atmospheric Conditions and Its Visibility Enhancement Analysis for Moving Object Detection. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021, 31, 844-862.	5.6	7
741	An improved dark channel prior based defogging algorithm for video sequences. <i>Journal of Information and Optimization Sciences</i> , 2021, 42, 29-39.	0.2	1
742	Prior guided conditional generative adversarial network for single image dehazing. <i>Neurocomputing</i> , 2021, 423, 620-638.	3.5	15

#	ARTICLE	IF	CITATIONS
743	Enhancement of Hazy Images Using Atmospheric Light Estimation Technique. Journal of Circuits, Systems and Computers, 2021, 30, 2150078.	1.0	1
744	Single image dehazing via atmospheric scattering model-based image fusion. Signal Processing, 2021, 178, 107798.	2.1	28
745	A Fast Single Image Fog Removal Method Using Geometric Mean Histogram Equalization. International Journal of Image and Graphics, 2021, 21, 2150001.	1.2	5
746	Deep neural de-raining model based on dynamic fusion of multiple vision tasks. Soft Computing, 2021, 25, 2221-2235.	2.1	3
747	Single Image Haze Removal With Haze Map Optimization for Various Haze Concentrations. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 286-301.	5.6	18
748	Image Defogging Quality Assessment: Real-World Database and Method. IEEE Transactions on Image Processing, 2021, 30, 176-190.	6.0	46
749	Multi-Stream Fusion Network With Generalized Smooth $L_1$ Loss for Single Image Dehazing. IEEE Transactions on Image Processing, 2021, 30, 7620-7635.	6.0	16
750	Image Dehazing in Disproportionate Haze Distributions. IEEE Access, 2021, 9, 44599-44609.	2.6	1
751	Single Image Dehazing Using Wavelet-Based Haze-Lines and Denoising. IEEE Access, 2021, 9, 104547-104559.	2.6	30
752	Research on Multi-perception Data Analysis Model for Power Grid Emergency Services. Advances in Intelligent Systems and Computing, 2021, , 279-285.	0.5	1
753	The Generative Adversarial Network Based on Attention Mechanism for Image Defogging. Communications in Computer and Information Science, 2021, , 12-25.	0.4	1
754	An End-to-End Traffic Visibility Regression Algorithm. IEEE Access, 2022, 10, 25448-25454.	2.6	6
755	Regularization model based on transmission constraint. , 2021, , .		1
756	Pixel-Wise Wasserstein Autoencoder for Highly Generative Dehazing. IEEE Transactions on Image Processing, 2021, 30, 5452-5462.	6.0	23
757	IDE: Image Dehazing and Exposure Using an Enhanced Atmospheric Scattering Model. IEEE Transactions on Image Processing, 2021, 30, 2180-2192.	6.0	101
758	Single Haze Image Restoration Under Non-Uniform Dense Scattering Media. IEEE Signal Processing Letters, 2021, 28, 1625-1629.	2.1	0
759	A Fish Retina-Inspired Single Image Dehazing Method. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1875-1888.	5.6	5
760	Dense Haze Removal by Nonlinear Transformation. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 593-607.	5.6	15

#	ARTICLE	IF	CITATIONS
761	Development of Image Dehazing Algorithm. Advances in Intelligent Systems and Computing, 2021, , 461-466.	0.5	0
762	Rendering Scenes for Simulating Adverse Weather Conditions. Lecture Notes in Computer Science, 2021, , 347-358.	1.0	1
763	Region-Based Dehazing via Dual-Supervised Triple-Convolutional Network. IEEE Transactions on Multimedia, 2022, 24, 245-260.	5.2	25
764	Near-Infrared Depth-Independent Image Dehazing using Haar Wavelets. , 2021, , .		5
765	Image and Video Dehazing based on Gamma Correction Method Contrast Enhancement. International Journal of Advanced Research in Science, Communication and Technology, 0, , 202-208.	0.0	0
766	Deep Dehazing Network With Latent Ensembling Architecture and Adversarial Learning. IEEE Transactions on Image Processing, 2021, 30, 1354-1368.	6.0	24
767	Experimental Analysis of Image Dehazing Algorithms for Pelletization Process Images. ISIJ International, 2021, 61, 269-279.	0.6	6
768	Image Haze Removal Algorithm Using a Logarithmic Guide Filtering and Multi-Channel Prior. IEEE Access, 2021, 9, 11416-11426.	2.6	8
769	Image Defogging Framework Using Segmentation and the Dark Channel Prior. Entropy, 2021, 23, 285.	1.1	13
770	Fast Fusion-Based Dehazing With Histogram Modification and Improved Atmospheric Illumination Prior. IEEE Sensors Journal, 2021, 21, 5259-5270.	2.4	14
771	Single Image Defogging using Deep Learning Techniques: Past, Present and Future. Archives of Computational Methods in Engineering, 2021, 28, 4449-4469.	6.0	24
772	Advanced Visualization Polarimetric Imaging: Removal of Water Spray Effect Utilizing Circular Polarization. Applied Sciences (Switzerland), 2021, 11, 2996.	1.3	4
773	Review of passive polarimetric dehazing methods. Optical Engineering, 2021, 60, .	0.5	6
774	Visibility Restoration Using Generalized Haze-Lines. Information Technology and Control, 2021, 50, 188-207.	1.1	1
775	Multi-scale depth information fusion network for image dehazing. Applied Intelligence, 2021, 51, 7262-7280.	3.3	19
776	Image Preprocessing for Artistic Robotic Painting. Inventions, 2021, 6, 19.	1.3	11
777	An intelligent framework for transmission map estimation in image dehazing using total variation regularized low-rank approximation. Visual Computer, 2022, 38, 2357-2372.	2.5	3
778	Self-filtering image dehazing with self-supporting module. Neurocomputing, 2021, 432, 57-69.	3.5	34

#	ARTICLE	IF	CITATIONS
779	Image defogging based on amended dark channel prior and 4-directional L <sub>1</sub> regularisation. IET Image Processing, 2021, 15, 2454-2477.	1.4	4
780	Single-scale Residual Dense Dehazing Network. Journal of Physics: Conference Series, 2021, 1881, 032008.	0.3	0
781	Multi-Scale and Attention Residual Network for Single Image Dehazing. , 2021, , .		3
782	Visibility Enhancement and Fog Detection: Solutions Presented in Recent Scientific Papers with Potential for Application to Mobile Systems. Sensors, 2021, 21, 3370.	2.1	12
783	A fast and effective vision enhancement method for single foggy image. Engineering Science and Technology, an International Journal, 2021, 24, 1478-1489.	2.0	10
784	Haze removal with channel-wise scattering coefficient awareness based on grey pixels. Optics Express, 2021, 29, 16619.	1.7	2
785	A joint cumulative distribution function and gradient fusion based method for dehazing of long shot hazy images. Journal of Visual Communication and Image Representation, 2021, 77, 103087.	1.7	6
786	Appraise of Deep Learning and Image Processing based Single Image Dehazing Algorithms. , 2021, , .		1
787	Single image dehazing based on haze density estimation in different color spaces. OSA Continuum, 2021, 4, 1723.	1.8	2
788	Single image dehazing using elliptic curve scattering model. Signal, Image and Video Processing, 2021, 15, 1443-1451.	1.7	6
789	Underwater Image Restoration via Non-Convex Non-Smooth Variation and Thermal Exchange Optimization. Journal of Marine Science and Engineering, 2021, 9, 570.	1.2	9
790	An end-to-end sea fog removal network using multiple scattering model. PLoS ONE, 2021, 16, e0251337.	1.1	5
791	Efficient Single Image Dehazing Model Using Metaheuristics-Based Brightness Channel Prior. Mathematical Problems in Engineering, 2021, 2021, 1-12.	0.6	2
792	Image haziness contrast metric describing optical scattering depth. , 2021, , .		0
793	Bayesian retinex underwater image enhancement. Engineering Applications of Artificial Intelligence, 2021, 101, 104171.	4.3	144
794	Single Image Dehazing Using Bounded Channel Difference Prior. , 2021, , .		13
795	Novel air quality measure method based on image blur metric. , 2021, , .		0
796	Single nighttime image dehazing based on image decomposition. Signal Processing, 2021, 183, 107986.	2.1	25

#	ARTICLE	IF	CITATIONS
797	Improved single image dehazing methods for resource-constrained platforms. <i>Journal of Real-Time Image Processing</i> , 2021, 18, 2511-2525.	2.2	12
798	Haziness Degree Evaluator: A Knowledge-Driven Approach for Haze Density Estimation. <i>Sensors</i> , 2021, 21, 3896.	2.1	17
799	Video Smoke Removal from a Single Image Sequence. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2021, E104.A, 876-886.	0.2	0
800	Haze concentration adaptive network for image dehazing. <i>Neurocomputing</i> , 2021, 439, 75-85.	3.5	46
801	Haze Removal Based on Refined Transmission Map for Aerial Image Matching. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6917.	1.3	4
802	Estimation of minimum color channel using difference channel in single image Dehazing. <i>Multimedia Tools and Applications</i> , 2021, 80, 31837-31863.	2.6	1
803	Image Enhancement Methods for Remote Sensing: A Survey. , 0, , .		0
804	Visibility restoration of remote sensing images using dynamic multi-objective differential evolution. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	3.3	0
805	Single Image Cloud Removal Using U-Net and Generative Adversarial Networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 6371-6385.	2.7	24
806	Sparse coding and improved dark channel prior-based deep CNN model for enhancing visibility of foggy images. <i>International Journal of Information Technology (Singapore)</i> , 2022, 14, 547-557.	1.8	2
807	Enhancement of underwater optical images based on background light estimation and improved adaptive transmission fusion. <i>Optics Express</i> , 2021, 29, 28307.	1.7	15
809	Single image haze removal via attention-based transmission estimation and classification fusion network. <i>Neurocomputing</i> , 2021, 447, 48-63.	3.5	9
810	A novel image dehazing framework for robust vision-based intelligent systems. <i>International Journal of Intelligent Systems</i> , 2022, 37, 10495-10513.	3.3	10
811	Pyramid Global Context Network for Image Dehazing. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021, 31, 3037-3050.	5.6	22
812	Unsupervised single-image dehazing using the multiple-scattering model. <i>Applied Optics</i> , 2021, 60, 7858.	0.9	4
813	Photo-Realistic Image Dehazing and Verifying Networks via Complementary Adversarial Learning. <i>Sensors</i> , 2021, 21, 6182.	2.1	4
814	Band Selection for Dehazing Algorithms Applied to Hyperspectral Images in the Visible Range. <i>Sensors</i> , 2021, 21, 5935.	2.1	2
815	Nighttime Haze Removal Using Saliency-Oriented Ambient Light And Transmission Estimation. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
816	Multi-Scale Model Driven Single Image Dehazing. , 2021, , .		0
817	Scale aware remote sensing image enhancement using rolling guidance. Journal of Visual Communication and Image Representation, 2021, 80, 103315.	1.7	1
818	Real-time video dehazing via incremental transmission learning and spatial-temporally coherent regularization. Neurocomputing, 2021, 458, 602-614.	3.5	6
819	An L0-regularized global anisotropic gradient prior for single-image de-raining. Applied Mathematical Modelling, 2021, 98, 628-651.	2.2	5
820	Multiscale Image Dehazing and Restoration: An Application for Visual Surveillance. Computers, Materials and Continua, 2022, 70, 1-17.	1.5	13
821	Hierarchical Density-Aware Dehazing Network. IEEE Transactions on Cybernetics, 2022, 52, 11187-11199.	6.2	21
822	Image and Video Dehazing based on Gamma Correction Method Contrast Enhancement. SSRN Electronic Journal, 0, , .	0.4	0
823	Nighttime Single Image Dehazing Based on the Structural Patch Decomposition. IEEE Access, 2021, 9, 82070-82082.	2.6	0
825	Deep Dense Multi-Scale Network for Snow Removal Using Semantic and Depth Priors. IEEE Transactions on Image Processing, 2021, 30, 7419-7431.	6.0	43
826	Single Image Haze Removal Based on a Simple Additive Model With Haze Smoothness Prior. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3490-3499.	5.6	7
827	Joint Contrast Enhancement and Exposure Fusion for Real-World Image Dehazing. IEEE Transactions on Multimedia, 2022, 24, 3934-3946.	5.2	41
828	Adaptive Underwater Image Enhancement via Color Channel Compensation Based on Optical Restoration and Fusion. Lecture Notes in Computer Science, 2021, , 207-217.	1.0	0
829	Model Adaptation with Synthetic and Real Data for Semantic Dense Foggy Scene Understanding. Lecture Notes in Computer Science, 2018, , 707-724.	1.0	97
830	Traffic Sensing and Assessing in Digital Transportation Systems. Unsupervised and Semi-supervised Learning, 2019, , 107-135.	0.4	2
831	A New Single Image Dehazing Approach Using Modified Dark Channel Prior. Advances in Intelligent Systems and Computing, 2015, , 77-85.	0.5	3
832	A Variational Framework for Single Image Dehazing. Lecture Notes in Computer Science, 2015, , 259-270.	1.0	6
833	Robust Image and Video Dehazing with Visual Artifact Suppression via Gradient Residual Minimization. Lecture Notes in Computer Science, 2016, , 576-591.	1.0	132
834	Real-Time Video Dehazing Based on Spatio-Temporal MRF. Lecture Notes in Computer Science, 2016, , 315-325.	1.0	23

#	ARTICLE	IF	CITATIONS
835	Enhancement of Image Degraded by Fog Using Cost Function Based on Human Visual Model. Lecture Notes in Electrical Engineering, 2009, , 163-171.	0.3	8
836	Estimating Meteorological Visibility Using Cameras: A Probabilistic Model-Driven Approach. Lecture Notes in Computer Science, 2011, , 243-254.	1.0	15
837	A Fast Semi-inverse Approach to Detect and Remove the Haze from a Single Image. Lecture Notes in Computer Science, 2011, , 501-514.	1.0	94
838	Real-Time Detection of Small Surface Objects Using Weather Effects. Lecture Notes in Computer Science, 2011, , 27-38.	1.0	5
839	Adaptive and Nonlinear Techniques for Visibility Improvement of Hazy Images. Lecture Notes in Computer Science, 2011, , 75-84.	1.0	3
841	A New Fog Removing Method Based on the Degradation Model. Advances in Intelligent and Soft Computing, 2012, , 597-601.	0.2	2
842	Parallel Implementation and Optimization of Haze Removal Using Dark Channel Prior Based on CUDA. Communications in Computer and Information Science, 2013, , 99-109.	0.4	5
843	Contrast Restoration of Fog-Degraded Image Sequences. Advances in Intelligent Systems and Computing, 2015, , 325-338.	0.5	6
844	Enhanced Single Image Uniform and Heterogeneous Fog Removal Using Guided Filter. Advances in Intelligent Systems and Computing, 2017, , 453-463.	0.5	2
845	Real-time haze removal in monocular images using locally adaptive processing. Journal of Real-Time Image Processing, 2019, 16, 1959-1973.	2.2	9
846	Skeleton matching with applications in severe weather detection. Applied Soft Computing Journal, 2018, 70, 1154-1166.	4.1	7
847	Semi-supervised advancement of underwater visual quality. Measurement Science and Technology, 2021, 32, 015404.	1.4	4
848	Deep Underwater Image Restoration and Beyond. IEEE Signal Processing Letters, 2020, 27, 675-679.	2.1	59
849	Defogging of road images using gain coefficient-based trilateral filter. Journal of Electronic Imaging, 2018, 27, 1.	0.5	32
850	Saliency-driven single image haze removal method based on reliable airlight and transmission. Journal of Electronic Imaging, 2018, 27, 1.	0.5	4
851	Underwater image enhancement and restoration based on local fusion. Journal of Electronic Imaging, 2019, 28, 1.	0.5	10
852	Real-time image dehazing using genetic programming. , 2019, , .		4
853	Solving heterogenous region for diffuse optical tomography with a convolutional forward calculation model and the inverse neural network. , 2020, , .		2



#	ARTICLE	IF	CITATIONS
854	Deep photo. , 2008, , .		121
855	Video Defogging Based on Adaptive Tolerance. TELKOMNIKA Indonesian Journal of Electrical Engineering, 2012, 10, .	0.1	4
856	Removal of Atmospheric Particles in Poor Visibility Outdoor Images. TELKOMNIKA Indonesian Journal of Electrical Engineering, 2013, 11, .	0.1	8
857	Image Dehazing Algorithm Based on Conditional Generation against Network. Journal of Image and Signal Processing, 2020, 09, 1-7.	0.1	1
858	Spectral characteristics of MTF in turbid atmosphere and its application for imaging band selection. Applied Optics, 2019, 58, 904.	0.9	2
859	Contrast-dependent saturation adjustment for outdoor image enhancement. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 7.	0.8	31
860	Multilevel weighted enhancement for underwater image dehazing. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1098.	0.8	14
861	Polarization-based exploration for clear underwater vision in natural illumination. Optics Express, 2019, 27, 3629.	1.7	59
862	Computer-vision-based intelligent adaptive transmission for optical wireless communication. Optics Express, 2019, 27, 7979.	1.7	9
863	A Kalman Filter-Based Method for Restoration of Images Obtained by an In-Vehicle Camera in Foggy Conditions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 577-584.	0.2	2
864	A Review on Influence of Fog on Road Crash. International Journal of Engineering Research & Technology, 2017, V6, .	0.2	2
865	A Rain Removal Method Using Chromatic Property for Image Sequence. , 2008, , .		5
866	Image-Based Dedicated Methods of Night Traffic Visibility Estimation. Applied Sciences (Switzerland), 2020, 10, 440.	1.3	4
867	Image Dehazing Based on (CMTnet) Cascaded Multi-scale Convolutional Neural Networks and Efficient Light Estimation Algorithm. Applied Sciences (Switzerland), 2020, 10, 1190.	1.3	18
868	Physics-based Fast Single Image Fog Removal. Zidonghua Xuebao/Acta Automatica Sinica, 2011, 37, 143-149.	0.3	32
869	Review and prospect of image dehazing techniques. Journal of Computer Applications, 2010, 30, 2417-2421.	0.1	28
870	Single Image Dehazing Algorithm Based on Sky Region Segmentation. Information Technology Journal, 2013, 12, 1168-1175.	0.3	42
871	A Novel Method for Night-Time Single Image Dehazing. Journal of Computer and Communications, 2019, 07, 76-87.	0.6	1

#	ARTICLE	IF	CITATIONS
872	Adaptive Object Detection and Visibility Improvement in Foggy Image. Journal of Multimedia, 2011, 6, .	0.3	12
873	A Novel Method for the Contrast Enhancement of Fog Degraded Video Sequences. International Journal of Computer Applications, 2012, 54, 1-5.	0.2	7
874	A Review on Methods of Image Dehazing. International Journal of Computer Applications, 2016, 133, 44-49.	0.2	3
875	Single Image Haze Removal Algorithm using Color Attenuation Prior and Multi-Scale Fusion. International Journal of Computer Applications, 2016, 141, 37-42.	0.2	6
876	SINGLE IMAGE DEHAZING FOR VISIBILITY IMPROVEMENT. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W4, 355-360.	0.2	3
877	BLIND CONTRAST ENHANCEMENT ASSESSMENT BY GRADIENT RATIOING AT VISIBLE EDGES. Image Analysis and Stereology, 2008, 27, 87.	0.4	600
878	A Review of Image Restoration based Image Defogging Algorithms. International Journal of Image Graphics and Signal Processing, 2017, 9, 62-74.	0.8	14
879	Traffic Video Surveillance in Different Weather Conditions. Transactions on Maritime Science, 2014, 3, 32-41.	0.3	3
880	Dehazing and Defogging. , 2021, , 279-283.		0
881	Deep Illumination-Aware Dehazing With Low-Light and Detail Enhancement. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2494-2508.	4.7	8
882	PD-Net: Improved Dehaze-Net Based on Pyramid Pooling Module. Advances in Applied Mathematics, 2021, 10, 3351-3360.	0.0	0
883	Transparency and Translucency. , 2021, , 1273-1277.		1
884	Remote Sensing Image Enhancement by Rolling Guidance and Hazy Image Model. , 2021, , .		0
885	The Impact of Haze Non-Homogeneity on the Recent Image Dehazing Methods. , 2021, , .		0
886	Image enhancement via texture protection Retinex. IET Image Processing, 2022, 16, 61-78.	1.4	4
887	Single Image Haze Removal Based on transmission map estimation using Encoder-Decoder based deep learning architecture. Optik, 2021, 248, 168197.	1.4	8
888	Long-Range Facial Image Acquisition and Quality. Advances in Pattern Recognition, 2009, , 169-192.	0.8	7
889	Single Image Restoration of Outdoor Scenes. Lecture Notes in Computer Science, 2011, , 245-252.	1.0	1

#	ARTICLE	IF	CITATIONS
890	Development of Camera-Based Measurement System for Crane Spreader Position using Foggy-degraded Image Restoration Technique. Journal of Navigation and Port Research, 2011, 35, 317-321.	0.1	0
891	Image dehazing method based on neighborhood similarity dark channel prior. Journal of Computer Applications, 2011, 31, 1224-1226.	0.1	1
892	A Contrast Enhancement Method for Fog-Degraded Images. , 2012, , 577-584.		0
894	Research on a Defogging Method of Fog-Degrade Image Based on Depth Region Segmentation. Advances in Intelligent and Soft Computing, 2012, , 973-977.	0.2	0
895	Improved Optical Model Based on Region Segmentationfor Single Image Haze Removal. International Journal of Information and Electronics Engineering, 2012, , .	0.2	1
896	Automatic Restoration Method Based on a Single Foggy Image. Advances in Intelligent and Soft Computing, 2012, , 361-366.	0.2	1
897	Method of weather recognition based on decision-tree-based SVM. Journal of Computer Applications, 2012, 31, 1624-1627.	0.1	1
898	Image Haze Removal Using Dark Channel Prior. , 2013, , .		0
899	Contrast Enhancement of Weather Degraded Images. , 2013, , .		0
900	Performance Analysis and Optimization of Linear Restoration in Spatial Domain. International Journal of Computer Applications, 2013, 61, 1-5.	0.2	2
901	Semi-supervised Learning based Dark Channel Dehazing. , 0, , .		0
902	Enhancement of Haze Removal using Transmission Rate Compensation. Journal of Broadcast Engineering, 2013, 18, 159-166.	0.1	1
903	The Key Technologies of Maritime Video Enhancement: A Survey. Journal of Image and Signal Processing, 2014, 03, 87-93.	0.1	0
904	Dehazing and Defogging. , 2014, , 174-177.		1
905	Transparency and Translucency. , 2014, , 815-819.		0
906	Image Dehazing using Transmission Map Based on Hidden Markov Random Field Model. Journal of the Institute of Electronics and Information Engineers, 2014, 51, 145-151.	0.0	0
907	Image Haze Removal Based on Transmission Map Using Hidden Markov Random Field Model. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1820-1822.	0.2	2
908	Real Time Enhancement of Images Degraded by Bad Weather. Journal of Korea Multimedia Society, 2014, 17, 143-151.	0.1	2

#	ARTICLE	IF	CITATIONS
909	No-Reference Visibility Prediction Model of Foggy Images Using Perceptual Fog-Aware Statistical Features. Journal of the Institute of Electronics and Information Engineers, 2014, 51, 131-143.	0.0	0
910	IMPROVED SINGLE IMAGE DEHAZING BY FUSION. International Journal of Research in Engineering and Technology, 2014, 03, 432-437.	0.1	3
912	Performance Comparison of Various Filters for Denoising Foggy Images. International Journal of Computer Applications, 2014, 99, 42-51.	0.2	2
913	Reduction of Block Artifacts in Haze Image and Evaluation using Disparity Map. Journal of Broadcast Engineering, 2014, 19, 656-664.	0.1	0
914	Fast and High-Quality Haze Removal Method Based on Transmission Correction. Journal of the Institute of Electronics and Information Engineers, 2014, 51, 165-173.	0.0	0
915	Dehaze the Image Using Directed Filter Method after Blind Dehazing. International Journal of Scientific Engineering and Technology, 2015, 4, 15-19.	0.2	0
916	Image Enhancement Focusing on Hazy and Non-uniform Illumination Images. , 0, , .		0
917	Image Clarification Method Based on Structure-Texture Decomposition with Texture Refinement. Lecture Notes in Computer Science, 2015, , 352-362.	1.0	0
918	Natural Image Dehazing Based on L O Gradient Minimization. Lecture Notes in Computer Science, 2015, , 603-610.	1.0	0
919	Single Image Fog Removal Based on Fusion Strategy. , 2015, , .		0
920	A Single Image Defogging Algorithm Based on Multi-Resolution Method Using Histogram Information and Dark Channel Prior. Journal of Advanced Marine Engineering and Technology, 2015, 39, 649-655.	0.1	0
921	Improved Haze Removal Algorithm by using Color Normalization and Haze Rate Compensation. Journal of Broadcast Engineering, 2015, 20, 738-747.	0.1	0
922	Visibility Enhancement in a Foggy Road Along with Road Boundary Detection. Smart Innovation, Systems and Technologies, 2016, , 125-135.	0.5	2
923	Image Dehazing Algorithm Using Near-infrared Image Characteristics. Journal of the Institute of Electronics and Information Engineers, 2015, 52, 115-123.	0.0	0
924	Survey on Quantitative Performance Evaluation Methods of Image Dehazing. KIPS Transactions on Software and Data Engineering, 2015, 4, 571-576.	0.1	0
925	Real-time Haze Removal Method using Brightness Transformation based on Atmospheric Scatter Coefficient Rate and Local Histogram Equalization. Journal of Korea Multimedia Society, 2016, 19, 10-21.	0.1	1
926	Analysis and dehazing of near-infrared images. Journal of the Korean Society for Aeronautical & Space Sciences, 2016, 44, 33-39.	0.0	0
927	Single Image Haze Removal Using Single Pixel Approach Based on Dark Channel Prior with Fast Filtering. Lecture Notes in Computer Science, 2016, , 151-162.	1.0	1

#	ARTICLE	IF	CITATIONS
928	Single Image Haze Removal Based on Prior Image Geometry and Edge-Preserving Filtering. Communications in Computer and Information Science, 2016, , 26-41.	0.4	0
930	A Quick Study of a Single Image Defogging Algorithm. , 2016, , .		0
931	An Estimation Algorithm of the Point Spread Function based on Singular Value Decomposition and Telemetry Prior Information. , 2016, , .		0
932	Effective Image Dehazing by Multiband Image Fusion. , 2016, , .		1
933	A kind of Fog Recognition Method for Video Image. , 2016, , .		0
935	Robust Feature Matching Using Haze Removal Based on Transmission Map for Aerial Images. Journal of Korea Multimedia Society, 2016, 19, 1281-1287.	0.1	0
936	Optimization of Dehazing Method for Efficient Implementation. Journal of the Institute of Electronics and Information Engineers, 2016, 53, 58-65.	0.0	0
937	An efficient algorithm based on the fast fuzzy theory for image and video dehazing. Proceedings of SPIE, 2016, , .	0.8	0
938	Result Analysis-Edge-Preserving Decomposition-based Single Image Haze Removal. International Journal of Computer Applications, 2017, 158, 25-28.	0.2	0
939	A Pixel-to-Pixel Convolutional Neural Network for Single Image Dehazing. Lecture Notes in Computer Science, 2017, , 270-279.	1.0	0
940	[Paper] Time-to-Contact in Scattering Media Environments based on Statistical Priors. ITE Transactions on Media Technology and Applications, 2017, 5, 147-161.	0.3	0
941	Proposal of Dehazing Method and Quantitative Index for Evaluation of Haze Removal Quality. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1045-1054.	0.2	2
942	Dehazing using Non-local Regularization with Iso-depth Neighbor-Fields. , 2017, , .		2
943	Spectral Dichromatic Parameter Recovery from Two Views via Total Variation Hyper-priors. Lecture Notes in Computer Science, 2017, , 317-333.	1.0	0
944	Time-to-Contact in Scattering Media. IEICE Transactions on Information and Systems, 2017, E100.D, 564-573.	0.4	4
945	Image Dehazing Method Based on Multi-scale Feature Fusion. , 2017, , .		0
946	Algorithm and Hardware Implementation of Image Haze Removal Combining with Sky Recognition. , 2017, , .		0
947	Improved Single Image Dehazing with Heterogeneous Atmospheric Light Estimation. Communications in Computer and Information Science, 2017, , 102-112.	0.4	2

#	ARTICLE	IF	CITATIONS
948	Fast recovery method for fog image. Proceedings of SPIE, 2017, , .	0.8	0
949	Research on polarization dehazing algorithm based on atmospheric scattering model. , 2017, , 1493-1496.		0
950	FPGA implementation of image dehazing algorithm for real time applications. , 2017, , .		3
951	Study on image quality assessment under foggy condition. , 2017, , .		0
952	Haze Removal of a Single Image by Using the Brightness Prior. International Journal of Intelligent Engineering and Systems, 2017, 10, 134-142.	0.8	1
953	Fog Removal by Multiple Polynomial Regression Model through Curvelets. International Journal of Intelligent Engineering and Systems, 2017, 10, 201-209.	0.8	1
954	Image Haze Removal Based on Haze Density. Computer Science and Application, 2018, 08, 1813-1822.	0.0	0
955	Feature-Centric Image Enhancement via Dehazing. International Journal of Computer and Electrical Engineering, 2018, 10, 146-157.	0.2	0
956	Image quality analysis method under background radiation in turbid atmosphere. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 088701.	0.2	1
958	Image Dehazing using PCA Fusion Technique for Enhanced Road Visibility. International Journal of Computer Applications, 2018, 180, 10-15.	0.2	3
960	The influence of natural and artificial fogs on visible and infrared imaging. , 2018, , .		2
964	Single image dehazing using heterogeneous atmospheric light estimation. Journal of Electronic Imaging, 2018, 27, 1.	0.5	0
965	A Novel Moving Object Detection Algorithm of the Monitor Video in the Foggy Weather. Communications in Computer and Information Science, 2019, , 205-215.	0.4	0
966	Single Image Dehazing Using Improved Gray World Theory and Dark Channel Prior. Lecture Notes in Computer Science, 2019, , 67-73.	1.0	2
967	Atmospheric Light Estimation using Particle Swarm Optimization for Dehazing. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	0
968	Multi-Stage Enhancement Approach for Image Dehazing. Advances in Science, Technology and Engineering Systems, 2019, 4, 343-352.	0.4	0
969	MODIFIED HAZE REMOVAL ALGORITHM FOR IMAGE USING COLOR ATTENUATION PRIOR. I-manager's Journal on Image Processing, 2019, 6, 17.	0.1	1
970	Non-local Haze Propagation with an Iso-Depth Prior. Communications in Computer and Information Science, 2019, , 213-238.	0.4	1

#	ARTICLE	IF	CITATIONS
971	Simulation of Hazy Image and Validation of Haze Removal Technique. Journal of Computer and Communications, 2019, 07, 62-72.	0.6	5
972	Research on Haze Removal for Autonomous Car. Transactions of Japan Society of Kansei Engineering, 2019, 18, 417-421.	0.1	0
973	A Concise Review on Image Dehazing Techniques. International Journal of Computer and Electrical Engineering, 2019, 11, 118-132.	0.2	2
974	Gated Contiguous Memory U-Net for Single Image Dehazing. Lecture Notes in Computer Science, 2019, , 117-127.	1.0	2
975	Fog Concentration Grade Judgment for Meter Reading Based on SVM. Lecture Notes in Computer Science, 2019, , 391-401.	1.0	0
976	Quantifying the Effects of Environmental Conditions on Autonomy Algorithms for Unmanned Ground Vehicles. Lecture Notes in Computer Science, 2019, , 422-432.	1.0	0
977	Convolutional deep network for light propagation in heterogeneous bio-tissues. , 2019, , .		0
978	Light-weight residual learning for single image dehazing. Journal of Electronic Imaging, 2019, 28, 1.	0.5	2
979	A Review on Different Image De-hazing Methods. Advances in Intelligent Systems and Computing, 2020, , 533-540.	0.5	2
980	Dual-Path in Dual-Path Network for Single Image Dehazing. , 2019, , .		11
981	Multi-Scale Fusion of Enhanced Hazy Images Using Particle Swarm Optimization and Fuzzy Intensification Operators. International Journal on Advanced Science, Engineering and Information Technology, 2019, 9, 1110-1115.	0.2	0
982	Cloudiness Expulsion of a Solitary Image using Dim Channel Earlier. International Journal of Recent Trends in Engineering and Research, 2019, 05, 30-38.	0.1	0
983	Multi-region processing method for single image deraining. , 2019, , .		0
984	SRM-Net. , 2019, , .		0
985	Residual-based Fast Single Image Fog Removal. , 2019, , .		0
986	Proposing an Image Enhancement Algorithm Using CNN for Applications of Face Recognition System. Journal of Advances in Mathematics and Computer Science, 0, , 1-14.	0.3	2
987	Dehazing and Defogging. , 2020, , 1-4.		0
988	Implementation of Single Image De-hazing System on DSP TMS320C6748 Processor. Advances in Intelligent Systems and Computing, 2020, , 405-415.	0.5	1

#	ARTICLE	IF	CITATIONS
989	Vector wave simulation of active imaging through random media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 908.	0.8	0
990	Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. IEEE Photonics Journal, 2020, 12, 1-13.	1.0	5
991	An Enhanced Depth Approximation Model for Haze Removal Using Single Image. Lecture Notes in Electrical Engineering, 2021, , 679-692.	0.3	0
992	An Enhancement of Underwater Images Based on Contrast Restricted Adaptive Histogram Equalization for Image Enhancement. Advances in Intelligent Systems and Computing, 2021, , 275-285.	0.5	3
993	Robust Single-Image Dehazing. Electronics (Switzerland), 2021, 10, 2636.	1.8	1
994	Region Adaptive Single Image Dehazing. Entropy, 2021, 23, 1438.	1.1	1
995	Video dehazing based on CNN. , 2020, , .		0
996	MSNet: A novel end-to-end single image dehazing network with multiple inter-scale dense skip connections. IET Image Processing, 2021, 15, 143-154.	1.4	3
997	Single image haze removal using variable fog-weight. Journal of Physics: Conference Series, 2020, 1706, 012091.	0.3	2
998	A Review on Comparison of Different Techniques of Image Dehazing. , 2020, , .		0
999	Dehaze Model to Improve Object Visibility Under Atmospheric Degradation. , 2020, , .		0
1000	VRHAZE: The Simulation of Synthetic Haze Based on Visibility Range for Dehazing Method in Single Image. , 2020, , .		4
1001	SE-RWNN: an synergistic evolution and randomly wired neural network-based model for adaptive underwater image enhancement. IET Image Processing, 2020, 14, 4349-4358.	1.4	4
1002	Single image dehazing based on bright channel prior model and saliency analysis strategy. IET Image Processing, 2021, 15, 1023-1031.	1.4	7
1003	Non-Homogeneous Haze Removal via Artificial Scene Prior and Bidimensional Graph Reasoning. IEEE Transactions on Image Processing, 2021, 30, 9136-9149.	6.0	5
1004	An Image Restoration Method for Outdoor and Its Application to Under Water Using Improved Transmission Map and Airlight Estimation. Lecture Notes in Electrical Engineering, 2020, , 57-69.	0.3	0
1005	Transparency and Translucency. , 2020, , 1-5.		0
1006	Estimating Depth and Global Atmospheric Light for Image Dehazing Using Type-2 Fuzzy Approach. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 93-102.	3.4	15



#	ARTICLE	IF	CITATIONS
1007	Reconstruction of the Degraded Image: Restoration. , 2020, , 209-269.		0
1008	Single Image Dehazing Method Based on Sky Region Segmentation. Computer Science and Application, 2020, 10, 325-333.	0.0	0
1009	Traffic Image Dehazing Based on Wavelength Related Physical Imaging Model. Lecture Notes in Computer Science, 2020, , 403-413.	1.0	1
1010	Single Color Image Dehazing Based on Vese-Osher Model and Dark Channel Prior Algorithm. Lecture Notes in Computer Science, 2020, , 739-750.	1.0	0
1011	IDRLP: Image Dehazing Using Region Line Prior. IEEE Transactions on Image Processing, 2021, 30, 9043-9057.	6.0	35
1012	Zero-shot Single Image Restoration through Controlled Perturbation of Koschmieder's Model. , 2021, , .		19
1013	Rank-One Prior: Toward Real-Time Scene Recovery. , 2021, , .		21
1014	Improvement of Dark Channel Defogging Algorithm Based on Guided Filtering. , 2020, , .		1
1016	Contrast-dependent saturation adjustment for outdoor image enhancement. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 2532.	0.8	0
1018	Discrete Haze Level Dehazing Network. , 2020, , .		7
1019	Degraded image restoration based on quadtree decomposition in scattering media. , 2020, , .		0
1020	RCPID: retina color perception-based image dehazing. , 2020, , .		0
1021	Low Light Image Enhancement Algorithm Based on Retinex and Dehazing Model. , 2020, , .		1
1022	Haze Removal Method Based on Joint Transmission Map Estimation and Atmospheric-Light Extraction. , 2020, , .		2
1023	Image Dehazing Based on Multiple Scattering Model. , 2020, , .		1
1024	Multi-Scale Single Image Dehazing Using Laplacian and Gaussian Pyramids. IEEE Transactions on Image Processing, 2021, 30, 9270-9279.	6.0	33
1025	Application of one-stage instance segmentation with weather conditions in surveillance cameras at construction sites. Automation in Construction, 2022, 133, 104034.	4.8	16
1026	Variational contrast-saturation enhancement model for effective single image dehazing. Signal Processing, 2022, 192, 108396.	2.1	8

#	ARTICLE	IF	CITATIONS
1027	Semi-selective image dehazing. , 2021, , .		0
1028	Research on the Influence of Dehazing Algorithm on YOLOv3 Target Recognition. , 2021, , .		0
1029	Single Image Dehazing Method Based on Gradient Matrix and Ternary Parameter Search. , 2021, , .		0
1030	Dual Attention Fusion Network for Single Image Dehazing. , 2021, , .		1
1031	Recent advancement in haze removal approaches. Multimedia Systems, 2022, 28, 687-710.	3.0	6
1032	Intensity image restoration of lidar based on atmospheric scattering model. , 2021, , .		0
1033	Benchmarking Single Image Dehazing Methods. SN Computer Science, 2022, 3, 1.	2.3	2
1034	A New Model Dehazing Algorithm Based on Atmospheric Scattering Model and Retinex Algorithm. SSRN Electronic Journal, 0, , .	0.4	0
1035	Extraction of Aerosol Optical Extinction Properties From a Smartphone Photograph to Measure Visibility. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	2
1036	Haze Removal for a Single Remote Sensing Image Using Low-Rank and Sparse Prior. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	11
1037	Industrial Centric Node Localization and Pollution Prediction Using Hybrid Swarm Techniques. Computer Systems Science and Engineering, 2022, 42, 545-460.	1.9	1
1038	A GAN-based input-size flexibility model for single image dehazing. Signal Processing: Image Communication, 2022, 102, 116599.	1.8	6
1039	Real-time fog visibility range estimation for autonomous driving applications. , 2020, , .		4
1040	Depth Estimation from Single Hazy Images with 2-Phase Training. , 2020, , .		2
1041	A Review on Image Dehazing Algorithms for Vision based Applications in Outdoor Environment. , 2020, , .		2
1042	Algorithm for Fog-degraded Image Enhancement Based on Adaptive Fractional-order PDE. , 2020, , .		0
1043	Task-driven Image Preprocessing Algorithm Evaluation Strategy. , 2020, , .		1
1044	Steering Kernel-Based Guided Image Filter for Single Image Dehazing. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
1045	Image Dehazing Based on Haze Degree Classification. , 2020, , .		6
1046	Prior based Single Image Dehazing using Decision Image. , 2020, , .		1
1047	Single image enhancement in sandstorm weather via tensor least square. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1649-1661.	8.5	19
1048	A Novel Low-Illumination Image Enhancement Method Based on Dual-Channel Prior. , 2020, , .		2
1049	Accurate and Robust Atmospheric Light Estimation for Single Image Dehazing. , 2020, , .		1
1050	Image dehazing with an untrained neural network. , 2021, , .		1
1051	An Image Depth Processing Method Based On Parallel Computing and Multi-GPU. , 2021, , .		1
1052	Single Image Dehazing Based on Convolutional Neural Network Using Boundary Constraint. Pattern Recognition and Image Analysis, 2021, 31, 616-624.	0.6	0
1053	Multi-Scale Feature Fusion Network with Attention for Single Image Dehazing. Pattern Recognition and Image Analysis, 2021, 31, 608-615.	0.6	2
1054	Cycle-Consistent Adversarial Networks for Smoke Detection and Removal in Endoscopic Images. , 2021, 2021, 3070-3073.		1
1055	Single-image dehazing using scene radiance constraint and color gradient guided filter. Signal, Image and Video Processing, 2022, 16, 1297-1304.	1.7	3
1056	Feature Attention Parallel Aggregation Network for Single Image Haze Removal. IEEE Access, 2022, 10, 15322-15335.	2.6	2
1057	Computational imaging without a computer: seeing through random diffusers at the speed of light. ELight, 2022, 2, .	11.9	83
1058	Remove and recover: Deep end-to-end two-stage attention network for single-shot heavy rain removal. Neurocomputing, 2022, 481, 216-227.	3.5	3
1059	Variational Single Nighttime Image Haze Removal With a Gray Haze-Line Prior. IEEE Transactions on Image Processing, 2022, 31, 1349-1363.	6.0	21
1060	Removal of fog from hazy images and their restoration. Journal of King Saud University, Engineering Sciences, 2022, , .	1.2	5
1061	AED-Net: A Single Image Dehazing. IEEE Access, 2022, 10, 12465-12474.	2.6	8
1062	STRASS Dehazing: Spatio-Temporal Retinex-Inspired Dehazing by an Averaging of Stochastic Samples. Journal of Renewable Materials, 2022, 10, 1381-1395.	1.1	2

#	ARTICLE	IF	CITATIONS
1063	DRDDN: dense residual and dilated dehazing network. Visual Computer, 2023, 39, 953-969.	2.5	6
1064	An Improved Dark Channel Prior Method for Dusty Image Restoration. Journal of Physics: Conference Series, 2022, 2173, 012063.	0.3	0
1065	Color-Dense Illumination Adjustment Network for Removing Haze and Smoke from Fire Scenario Images. Sensors, 2022, 22, 911.	2.1	4
1066	Robust detection of dehazed images via dual-stream CNNs with adaptive feature fusion. Computer Vision and Image Understanding, 2022, 217, 103357.	3.0	4
1067	A unified weighted variational model for simultaneously haze removal and noise suppression of hazy images. Displays, 2022, 72, 102137.	2.0	8
1069	Underwater Image Enhancement by Attenuated Color Channel Correction and Detail Preserved Contrast Enhancement. IEEE Journal of Oceanic Engineering, 2022, 47, 718-735.	2.1	73
1070	Evolving Fusion-Based Visibility Restoration Model for Hazy Remote Sensing Images Using Dynamic Differential Evolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	31
1071	Haze Level Evaluation Using Dark and Bright Channel Prior Information. SSRN Electronic Journal, 0, , .	0.4	1
1072	Single Image Dehazing with Color Correction Transform Dark Channel Prior. SSRN Electronic Journal, 0, , .	0.4	0
1074	Roadmap on chaos-inspired imaging technologies (CI2-Tech). Applied Physics B: Lasers and Optics, 2022, 128, 1.	1.1	27
1075	Underwater Image Enhancement Based on Histogram-Equalization Approximation Using Physics-Based Dichromatic Modeling. Sensors, 2022, 22, 2168.	2.1	6
1076	Robust regularization for single image dehazing. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 7168-7173.	2.7	2
1077	High-Resolution Representations Network for Single Image Dehazing. Sensors, 2022, 22, 2257.	2.1	3
1078	Multi-scale single image dehazing based on the fusion of global and local features. IET Image Processing, 2022, 16, 2049-2062.	1.4	2
1079	Underwater Image Restoration via DCP and Yin-Yang Pair Optimization. Journal of Marine Science and Engineering, 2022, 10, 360.	1.2	5
1080	Visibility enhancement of fog degraded images using adaptive defogging function. Multimedia Tools and Applications, 2022, 81, 35317-35347.	2.6	2
1081	Entropy based single image dehazing with refined transmission using holistic edges. Multimedia Tools and Applications, 2022, 81, 20229-20253.	2.6	5
1082	A natural-based fusion strategy for underwater image enhancement. Multimedia Tools and Applications, 2022, 81, 30051-30068.	2.6	4

#	ARTICLE	IF	CITATIONS
1083	Video fog removal using Anisotropic Total Variation de-noising. Multimedia Tools and Applications, 0, , 1.	2.6	1
1084	A deep learning model for incorporating temporal information in haze removal. Remote Sensing of Environment, 2022, 274, 113012.	4.6	12
1085	Low-light image enhancement using inverted image normalized by atmospheric light. Signal Processing, 2022, 196, 108523.	2.1	10
1086	An Optimized Image Dehazing Algorithm Based on Local Entropy Theory. , 2021, , .		0
1087	Single image dehazing based on pixel-wise transmission estimation with estimated radiance patches. Neurocomputing, 2022, 492, 545-560.	3.5	5
1088	Single Image Dehazing via Transmission Map Estimation using Deep Neural Networks. , 2021, , .		1
1089	Different Haze Image Conditions for Single Image Dehazing Method. , 2021, , .		0
1090	GADO-Net: An Improved AOD-Net Single Image Dehazing Algorithm. , 2021, , .		2
1091	Fast outdoor hazy image dehazing based on saturation and brightness. IET Image Processing, 2022, 16, 900-912.	1.4	2
1093	A Survey of Recent Advances for Single Image Haze Removal Techniques. SSRN Electronic Journal, 0, , .	0.4	0
1094	Color layers -Based progressive network for Single image dehazing. Multimedia Tools and Applications, 2022, 81, 32755-32778.	2.6	1
1095	Optical Imaging and Image Restoration Techniques for Deep Ocean Mapping: A Comprehensive Survey. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2022, 90, 243-267.	0.7	6
1098	Mist Removal Using Fast Algorithm Based on Linear Operator. International Journal of Scientific Research in Science, Engineering and Technology, 2022, , 339-347.	0.1	0
1099	Haze Level Evaluation Using Dark and Bright Channel Prior Information. Atmosphere, 2022, 13, 683.	1.0	2
1100	Single image haze removal using sharpness evaluation index. , 2022, , .		0
1101	A Multistage with Multiattention Network for Single Image Dehazing. Scientific Programming, 2022, 2022, 1-10.	0.5	1
1102	Local patchwise minimal and maximal values prior for single optical remote sensing image dehazing. Information Sciences, 2022, 606, 173-193.	4.0	7
1103	A spectral grouping-based deep learning model for haze removal of hyperspectral images. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 177-189.	4.9	15

#	ARTICLE	IF	CITATIONS
1104	Visibility enhancement and dehazing: Research contribution challenges and direction. Computer Science Review, 2022, 44, 100473.	10.2	2
1107	Haze Elimination Model-Based Color Saturation Adjustment With Contrast Correction. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	3
1108	<P Class="Els-Title">Deep Learning Image Dehazing Scheme Using Recursive Convolutional Layer Feature Extraction Method<O:P>&lt;/O:P>&lt;/P>. SSRN Electronic Journal, 0, , .	0.4	0
1109	FogAdapt: Self-supervised domain adaptation for semantic segmentation of foggy images. Neurocomputing, 2022, 501, 844-856.	3.5	9
1110	An efficient image dahazing using Googlenet based convolution neural networks. Multimedia Tools and Applications, 2022, 81, 43897-43917.	2.6	7
1111	Efficient single image haze removal using CLAHE and Dark Channel Prior for Internet of Multimedia Things. , 2022, , 189-202.		2
1112	DMRVisNet: Deep Multihead Regression Network for Pixel-Wise Visibility Estimation Under Foggy Weather. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22354-22366.	4.7	8
1113	Remote Sensing Image Dehazing Based on an Attention Convolutional Neural Network. IEEE Access, 2022, 10, 68731-68739.	2.6	7
1114	Improved Resolution of Dehazed Images with Dark Channel Prior and Super Resolution GAN. , 2022, , .		0
1115	Underwater imaging in turbid environments: generation model, analysis, and verification. Journal of Modern Optics, 0, , 1-19.	0.6	0
1116	Rapid nighttime haze removal with color-gray layer decomposition. Signal Processing, 2022, 200, 108658.	2.1	2
1117	Progressive Domain Translation Defogging Network for Real-World Fog Images. IEEE Transactions on Broadcasting, 2022, 68, 876-885.	2.5	4
1118	Image haze removal and computer-generated holographic display method in coal mine. , 2022, , .		1
1119	Local Defogging Algorithm for the First Frame Image of Unmanned Surface Vehicles Based on a Radar-Photoelectric System. Journal of Marine Science and Engineering, 2022, 10, 969.	1.2	1
1120	AWDMC-Net: Classification of Adversarial Weather Degraded Multiclass scenes using a Convolution Neural Network. Computer Vision and Image Understanding, 2022, 222, 103498.	3.0	3
1121	Multi-scale dehazing network via high-frequency feature fusion. Computers and Graphics, 2022, 107, 50-59.	1.4	6
1122	Rich feature distillation with feature affinity module for efficient image dehazing. Optik, 2022, 267, 169656.	1.4	3
1123	Real-time image and video dehazing based on multiscale guided filtering. Multimedia Tools and Applications, 2022, 81, 36567-36584.	2.6	4

#	ARTICLE	IF	CITATIONS
1124	A multi-expose fusion image dehazing based on scene depth information. Visual Computer, 2023, 39, 4855-4867.	2.5	3
1125	Traffic image haze removal based on optimized retinex model and dark channel prior. Journal of Intelligent and Fuzzy Systems, 2022, 43, 8137-8149.	0.8	5
1126	Structure-aware dehazing of sewer inspection images based on monocular depth cues. Computer-Aided Civil and Infrastructure Engineering, 0, , .	6.3	0
1127	ClarifyNet: A high-pass and low-pass filtering based CNN for single image dehazing. Journal of Systems Architecture, 2022, 132, 102736.	2.5	10
1128	Analysis of Diffractive Neural Networks for Seeing Through Random Diffusers. IEEE Journal of Selected Topics in Quantum Electronics, 2023, 29, 1-17.	1.9	6
1129	Dense Haze Removal Based on Dynamic Collaborative Inference Learning for Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	6
1130	Haze Elimination Strategy for Indoor Robot Vision with Dark Channel Prior and Encoded Blur Kernel Space. Lecture Notes in Electrical Engineering, 2022, , 267-279.	0.3	0
1131	An Infrared Small Target Polarization Enhancement Algorithm Based on Physical Model of Atmospheric Scattering. SSRN Electronic Journal, 0, , .	0.4	0
1132	Homogeneous and Non-homogeneous Image Dehazing Using Deep Neural Network. Communications in Computer and Information Science, 2022, , 375-386.	0.4	0
1133	Dual-Scale Single Image Dehazing via Neural Augmentation. IEEE Transactions on Image Processing, 2022, 31, 6213-6223.	6.0	27
1134	An Infrared Small Target Polarization Enhancement Algorithm Based on Physical Model of Atmospheric Scattering. SSRN Electronic Journal, 0, , .	0.4	0
1135	Global Multi-scale Fog Salient Object Detection Based on Local Attention Feature. , 2022, , .		0
1136	Multi-Scale Attentive Feature Fusion Network for Single Image Dehazing. , 2022, , .		4
1137	An Improved Fog Concentration Detection Method for Waterway Based on FADE. , 2022, , .		2
1138	Image Dehazing Algorithm Based on Deep Learning Coupled Local and Global Features. Applied Sciences (Switzerland), 2022, 12, 8552.	1.3	10
1139	Improved color image defogging algorithm based on dark channel prior. Journal of Intelligent and Fuzzy Systems, 2022, 43, 8187-8193.	0.8	1
1140	A Novel Technique For Enhancing Underwater Visibility Using Non-Local Stretch Directional Gradient. Journal of Physics: Conference Series, 2022, 2335, 012024.	0.3	1
1141	Robust U-Net: Development of robust image enhancement model using modified U-Net architecture. Concurrency Computation Practice and Experience, 0, , .	1.4	0

#	ARTICLE	IF	CITATIONS
1142	Efficient underwater image restoration utilizing modified dark channel prior. Multimedia Tools and Applications, 2023, 82, 14731-14753.	2.6	4
1143	GridDehazeNet+: An Enhanced Multi-Scale Network With Intra-Task Knowledge Transfer for Single Image Dehazing. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 870-884.	4.7	2
1144	IVF-Net: An Infrared and Visible Data Fusion Deep Network for Traffic Object Enhancement in Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 1220-1234.	4.7	3
1145	An Improved Algorithm for Defogging Based on Fused Underwater Images. , 2022, , .		0
1146	Dynamic Mutual Enhancement Network for Single Remote Sensing Image Dehazing. , 2022, , .		3
1147	Image dehazing using autoencoder convolutional neural network. International Journal of Systems Assurance Engineering and Management, 0, , .	1.5	1
1148	Single Image Dehazing via Model-Based Deep-Learning. , 2022, , .		2
1149	Improving the quality and visibility of objects in images captured in difficult weather conditions. , 2022, , .		0
1150	Multi-Input Attention Network for Dehazing of Remote Sensing Images. Applied Sciences (Switzerland), 2022, 12, 10523.	1.3	2
1151	Single underwater image enhancement based on the reconstruction from gradients. Multimedia Tools and Applications, 0, , .	2.6	0
1152	Color Correction and Local Contrast Enhancement for Underwater Image Enhancement. IEEE Access, 2022, , 1-1.	2.6	1
1153	Lightweight Image Dehazing Neural Network Model Based on Estimating Medium Transmission Map by Intensity. Lecture Notes in Computer Science, 2022, , 555-566.	1.0	0
1154	Multi-Purpose Oriented Single Nighttime Image Haze Removal Based on Unified Variational Retinex Model. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 1643-1657.	5.6	45
1155	A Dual-Channel Dehaze-Net for Single Image Dehazing in Visual Internet of Things Using PYNQ-Z2 Board. IEEE Transactions on Automation Science and Engineering, 2024, 21, 305-319.	3.4	11
1156	Real-world Underwater Image Enhancement via Degradation-aware Dynamic Network. Lecture Notes in Computer Science, 2022, , 530-541.	1.0	2
1157	SPIDE-Net: Spectral Prior-Based Image Dehazing and Enhancement Network. IEEE Access, 2022, 10, 120296-120311.	2.6	2
1158	Distortion Disentanglement and Knowledge Distillation for Satellite Image Restoration. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	1
1159	BiN-Flow: Bidirectional Normalizing Flow for Robust Image Dehazing. IEEE Transactions on Image Processing, 2022, 31, 6635-6648.	6.0	7



#	ARTICLE	IF	CITATIONS
1160	Laplace dark channel attenuation-based single image defogging in ocean scenes. Multimedia Tools and Applications, 2023, 82, 21535-21559.	2.6	1
1161	Single image dehazing by dark channel prior and luminance adjustment. Imaging Science Journal, 2020, 68, 278-287.	0.2	0
1162	Improving Vision Clarity and Object Detection Accuracy in Heavy Rain Base on Neural Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 111-116.	0.2	0
1163	Real-world image dehazing with improved joint enhancement and exposure fusion. Journal of Visual Communication and Image Representation, 2023, 90, 103720.	1.7	8
1164	Rank-One Prior: Real-Time Scene Recovery. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, , 1-17.	9.7	8
1165	Image Dehazing via Weighted Guided Filtering with Removing Lighting Effects. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 217-231.	0.2	0
1166	Image Dehazing Algorithm for Relieving Halo Effect and Color Distortion in Smooth Regions. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 953-969.	0.2	0
1167	Three-stage fusion framework for single image dehazing. Journal of Electronic Imaging, 2022, 31, .	0.5	0
1169	Semi-supervised learning dehazing algorithm based on the OSV model. IET Image Processing, 0, , .	1.4	0
1170	Enhanced Single Image Dehazing Technique based on HSV Color Space. UHD Journal of Science and Technology, 2022, 6, 135-146.	0.3	4
1171	A Comprehensive Survey and Taxonomy on Single Image Dehazing Based on Deep Learning. ACM Computing Surveys, 2023, 55, 1-37.	16.1	7
1172	Study on Practical Utility of Image Dehazing Algorithms Based on Deep Learning in Computer Vision Scene Understanding. Lecture Notes in Computer Science, 2022, , 601-612.	1.0	0
1173	Structure-transferring edge-enhanced grid dehazing network. Optics Express, 2023, 31, 3606.	1.7	2
1174	Image enhancement method in high-dust environment based on deep learning and atmospheric scattering model. , 2022, , .		0
1175	A Modified Dehazing Method for Single Infrared Image of Disc Suspension Porcelain Insulators. , 2022, , .		0
1176	Surgical smoke removal via residual Swin transformer network. International Journal of Computer Assisted Radiology and Surgery, 2023, 18, 1417-1427.	1.7	2
1177	Visibility Detection Based on Dark Channel Prior and ResNet. Lecture Notes in Electrical Engineering, 2023, , 5393-5402.	0.3	0
1178	Underwater image enhancement: past, present, and future. , 2023, , 151-172.		0

#	ARTICLE	IF	CITATIONS
1179	A Comparative Analysis of Single Image Dehazing Techniques for Real Scene. Lecture Notes in Networks and Systems, 2023, , 573-586.	0.5	0
1180	A deep learning model to detect foggy images for vision enhancement. Imaging Science Journal, 2023, 71, 484-498.	0.2	1
1181	Haze removal for single image: A comprehensive review. Neurocomputing, 2023, 537, 85-109.	3.5	6
1182	LFR-Net: Local feature residual network for single image dehazing. Array, 2023, 17, 100278.	2.5	1
1183	MARS-GAN: Multilevel-feature-learning Attention-aware based Generative Adversarial Network for Removing Surgical Smoke. IEEE Transactions on Medical Imaging, 2023, , 1-1.	5.4	1
1184	Design and Implementation of Image De-hazing Using Histogram Equalization. Lecture Notes in Networks and Systems, 2023, , 343-351.	0.5	0
1185	INAM-Based Image-Adaptive 3D LUTs for Underwater Image Enhancement. Sensors, 2023, 23, 2169.	2.1	1
1186	A New Robust Scale-Aware Weighting-Based Effective Edge-Preserving Gradient Domain Guided Image Filter for Single Image Dehazing. Journal of Signal Processing Systems, 0, , .	1.4	0
1187	DENet: Detection-driven Enhancement Network for Object Detection Under Adverse Weather Conditions. Lecture Notes in Computer Science, 2023, , 491-507.	1.0	2
1188	Novel parametric based time efficient portable real-time dehazing system. Journal of Real-Time Image Processing, 2023, 20, .	2.2	1
1189	Novel deeper AWRDNet: adverse weather-affected night scene restorator cum detector net for accurate object detection. Neural Computing and Applications, 0, , .	3.2	0
1190	Semi-supervised atmospheric component learning in low-light image problem. PLoS ONE, 2023, 18, e0282674.	1.1	0
1191	A deep learning-based framework for retinal fundus image enhancement. PLoS ONE, 2023, 18, e0282416.	1.1	3
1192	Infrared linear polarization small target enhancement algorithm in the cloudy background. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2023, 40, 859.	0.8	0
1193	Dehazing optically haze images with AlexNet-FNN. Journal of Optics (India), 2024, 53, 294-303.	0.8	0
1194	Image Defogging Based on Joint Contrast Enhancement and Multi-scale Fusion. , 2023, , .		1
1195	Effective edge-aware weighting filter-based structural patch decomposition multi-exposure image fusion for single image dehazing. Multidimensional Systems and Signal Processing, 0, , .	1.7	0
1196	Spectral Dual-Channel Encoding for Image Dehazing. IEEE Transactions on Circuits and Systems for Video Technology, 2023, , 1-1.	5.6	0

#	ARTICLE	IF	CITATIONS
1197	Effective Electrical Impedance Tomography Based on Enhanced Encoder-Decoder Using Atrous Spatial Pyramid Pooling Module. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 3282-3291.	3.9	1
1198	1/4-æ·£â°,,èfCEæ™-ä,çš,,â·3/4âfæ,,ÿçÿÿã€èžâ*ä,Žã-è\$†âCE-æŠ€æœ°. Hongwai Yu Jiguang Gongcheng/Laser Engineering		0
1199	Self-supervised zero-shot dehazing network based on dark channel prior. Frontiers of Optoelectronics, 2023, 16, .	1.9	0
1200	A Machine Vision-Based Person Detection Under Low-Illuminance Conditions Using High Dynamic Range Imagery for Visual Surveillance System. , 2022, , .		0
1201	Single-Image Haze Reduction Using a Straightforward Additive Model with a Haze Smoothness. , 2023, , .		0
1202	Faster-RCNN Based Cloud Region Recognition Algorithm for Single Images. , 2022, , .		0
1203	Geometric consistency enhanced deep convolutional encoder-decoder for urban seismic damage assessment by UAV images. Engineering Structures, 2023, 286, 116132.	2.6	4
1204	An Alternate Approach for Single Image Haze Removal Using Path Prediction. Communications in Computer and Information Science, 2023, , 341-350.	0.4	0
1205	Single Image Dehazing Using Multipath Networks Based on Chain of U-Nets. Communications in Computer and Information Science, 2023, , 195-208.	0.4	0
1206	Deep Dilated Convolutional Network for Single Image Dehazing. Communications in Computer and Information Science, 2023, , 281-291.	0.4	0
1207	Underwater Image Enhancement based on Improved Water-Net. , 2023, , .		4
1209	Underwater Image Restoration Using Color Correction and Empirical Mode Decomposition. , 2023, , .		1
1210	An IoT-Based Approach for Visibility Enhancement and Fog Detection. Lecture Notes in Electrical Engineering, 2023, , 255-266.	0.3	1
1211	Dark Channel Prior-Based Image Dehazing Algorithm for Single Outdoor Image. Lecture Notes in Electrical Engineering, 2023, , 437-446.	0.3	0
1222	Block-Based Multi-Scale Image Enhancement Method for Industrial Inspection System. , 2023, , .		0
1224	Underwater Image Restoration Using White Balance and Retinex Algorithm. , 2022, , .		1
1226	Comparing Effectiveness of GAN and CLAHE for Enhancing Underwater Images. , 2023, , .		0
1236	Vision-Based Weather Condition Recognition for Driver Assistance. Lecture Notes in Electrical Engineering, 2023, , 147-161.	0.3	0

#	ARTICLE	IF	CITATIONS
1244	Dark channel a priori defogging algorithm based on a combination of bright channel inversion and dark channel weighting. , 2023, , .		0
1247	Nighttime Haze Removal with Spatially Variant Ambient Light and Saliency-Weighted Fused Transmission. , 2023, , .		0
1253	Attention map-guided multi-scale haze removal method for industrial inspection system. , 2023, , .		0
1257	Single Image Dehazing with Deep-Image-Prior Networks. Lecture Notes in Computer Science, 2023, , 78-90.	1.0	0
1258	Under Water Image Restoration and Enhancement Using Image Processing in MATLAB. , 2023, , 865-872.		0
1266	Joint Median Channel Prior and Edge Enhancement for Single Image Dehazing. , 2023, , .		0
1270	Mutual Information-driven Triple Interaction Network for Efficient Image Dehazing. , 2023, , .		0
1271	Non-Homogeneous Haze Image Formation Model Based Single Image Dehazing. , 2023, , .		0
1273	From Global to Local: An Adaptive Environmental Illumination Estimation for Non-uniform Scattering. , 2023, , .		0
1274	Dehazing of Multispectral Images Using Contrastive Learning In CycleGAN. Lecture Notes in Networks and Systems, 2024, , 407-419.	0.5	0
1279	Image Dehazing Using a Simple Convolutional Autoencoder. , 2023, , .		0
1280	Multi-scale Decomposition Dehazing with Polarimetric Vision. Lecture Notes in Computer Science, 2024, , 112-126.	1.0	0
1281	Underwater Image Enhancement with Color Correction using Convolutional Neural Networks. , 2023, , .		0
1285	Radar and Camera Fusion Dehazing for Road Vehicle Detection in Haze Weather. , 2023, , .		0
1286	On Real-Time Object Recognition by Single Image Dehazing Method Using Deep Learning Approach. , 2023, , .		0
1287	Handwritten letter recognition using mathematical morphology. , 2023, , .		0
1288	Attentions in Deep Framework to Enhance Images Degraded by Non-Homogeneous Haze. , 2023, , .		0