Bogdan Smolka

List of Publications by Year
in descending order

116	1,454	471509	377865
papers	citations	17	34
		h-index	g-index

126	126	126	518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast detection and impulsive noise removal in color images. Real Time Imaging, 2005, 11, 389-402.	1.6	165
2	Selection weighted vector directional filters. Computer Vision and Image Understanding, 2004, 94, 140-167.	4.7	89
3	cDNA microarray image processing using fuzzy vector filtering framework. Fuzzy Sets and Systems, 2005, 152, 17-35.	2.7	87
4	Vector sigma filters for noise detection and removal in color images. Journal of Visual Communication and Image Representation, 2006, 17, 1-26.	2.8	87
5	A Statistically-Switched Adaptive Vector Median Filter. Journal of Intelligent and Robotic Systems: Theory and Applications, 2005, 42, 361-391.	3.4	78
6	A Multichannel Order-Statistic Technique for cDNA Microarray Image Processing. IEEE Transactions on Nanobioscience, 2004, 3, 272-285.	3.3	74
7	Sharpening vector median filters. Signal Processing, 2007, 87, 2085-2099.	3.7	61
8	Fast averaging peer group filter for the impulsive noise removal in color images. Journal of Real-Time Image Processing, 2016, 11, 427-444.	3.5	56
9	Peer group switching filter for impulse noise reduction incolor images. Pattern Recognition Letters, 2010, 31, 484-495.	4.2	51
10	Self-adaptive algorithm for segmenting skin regions. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	50
11	Adaptive rank weighted switching filter for impulsive noise removal in color images. Journal of Real-Time Image Processing, 2015, 10, 289-311.	3.5	46
12	Generalized Selection Weighted Vector Filters. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	45
13	Nonlinear Techniques for Color Image Processing. Electrical Engineering and Applied Signal Processing Series, 2003, , 445-506.	1.2	27
14	Fast adaptive switching technique of impulsive noise removal in color images. Journal of Real-Time Image Processing, 2019, 16, 1077-1098.	3.5	26
15	Robust local similarity filter for the reduction of mixed Gaussian and impulsive noise in color digital images. Signal, Image and Video Processing, 2015, 9, 49-56.	2.7	24
16	Deep Learning Based Switching Filter for Impulsive Noise Removal in Color Images. Sensors, 2020, 20, 2782.	3.8	20
17	A novel approach to the eye movement analysis using a high speed camera. , 2012, , .		15
18	Competitive image colorization. , 2010, , .		14

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19	Discriminative Textural Features for Image and Video Colorization. IEICE Transactions on Information and Systems, 2012, E95.D, 1722-1730.	0.7	14
20	Silesian Deception Database. , 2015, , .		13
21	Application of bilateral filtering and Gaussian Mixture modeling for the retrieval of paintings. , 2009, , .		12
22	Adaptive truncated Vector Median Filter. , 2011, , .		12
23	Power LBP: A Novel Texture Operator for Smiling and Neutral Facial Display Classification. Procedia Computer Science, 2015, 51, 1555-1564.	2.0	12
24	Entropy Vector Median Filter. Lecture Notes in Computer Science, 2003, , 1117-1125.	1.3	11
25	Eye blink detection using Local Binary Patterns. , 2014, , .		10
26	Reduced Ordering Technique of Impulsive Noise Removal in Color Images. Lecture Notes in Computer Science, 2013, , 296-310.	1.3	10
27	Smiling and Neutral Facial Display Recognition with the Local Binary Patterns Operator. Journal of Medical Imaging and Health Informatics, 2015, 5, 1374-1382.	0.3	10
28	Soft Switching Technique for Impulsive Noise Removal in Color Images. , 2013, , .		9
29	Soft-Switching Adaptive Technique of Impulsive Noise Removal in Color Images. Lecture Notes in Computer Science, 2005, , 686-693.	1.3	9
30	Texture-adaptive image colorization framework. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	8
31	Adaptive rank based impulsive noise reduction in color images. , 2012, , .		8
32	Automatic finger joint synovitis localization in ultrasound images. Proceedings of SPIE, 2016, , .	0.8	8
33	Gaussian Mixture Model Based Retrieval Technique for Lossy Compressed Color Images. Lecture Notes in Computer Science, 2007, , 662-673.	1.3	8
34	Application of the Extended Distance Transformation in digital image colorization. Multimedia Tools and Applications, 2014, 69, 111-137.	3.9	7
35	In Search of Truth: Analysis of Smile Intensity Dynamics to Detect Deception. Lecture Notes in Computer Science, 2016, , 325-337.	1.3	7
36	A robust indexing and retrieval method for lossy compressed color images. Proc Int Symp Image Signal Process Anal, 2007, , .	0.0	6

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37	Generalized Vector Median Filter. Proc Int Symp Image Signal Process Anal, 2007, , .	0.0	6
38	Blink Detection Based on the Weighted Gradient Descriptor. Advances in Intelligent Systems and Computing, 2013, , 691-700.	0.6	6
39	Fast impulsive noise removal in color images. , 2013, , .		6
40	Adaptive Non-local Means Filtering for Speckle Noise Reduction. Lecture Notes in Computer Science, 2014, , 518-525.	1.3	6
41	High dimensional local binary patterns for facial expression recognition in the wild. , 2016, , .		6
42	Dynamics of facial actions for assessing smile genuineness. PLoS ONE, 2021, 16, e0244647.	2.5	6
43	Contrast enhancement of badly illuminated images based on Gibbs distribution and random walk model. Lecture Notes in Computer Science, 1997, , 271-278.	1.3	6
44	A Data-Adaptive Approach to cDNA Microarray Image Enhancement. Lecture Notes in Computer Science, 2005, , 886-893.	1.3	5
45	Fast Digital Image Colorization Technique. , 2007, , .		5
46	Modified biased anisotropic diffusion processing of noisy color images. , 2008, , .		5
47	Trimmed Non-local Means Technique for Mixed Noise Removal in Color Images. , 2013, , .		5
48	Gaze direction estimation from static images. , 2014, , .		5
49	Robustified vector median filter. , 2014, , .		5
50	Thresholded median filter for the impulsive noise removal in digital images. , 2014, , .		5
51	On the robust technique of mixed Gaussian and impulsive noise reduction in color digital images. , 2015, , .		5
52	Segmentation of finger joint synovitis in ultrasound images. , 2016, , .		5
53	On the efficiency of a fast technique of impulsive noise removal in color digital images. , 2017, , .		5
54	Impulsive Noise Removal in Color Digital Images Based on the Concept of Digital Paths. , 2018, , .		5

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55	On the application of the reachability distance in the suppression of mixed Gaussian and impulsive noise in color images. Multimedia Tools and Applications, 2020, 79, 32857-32879.	3.9	5
56	A new method of texture binarization. Lecture Notes in Computer Science, 1997, , 629-636.	1.3	5
57	Digital Image Colorization Based on Probabilistic Distance Transform. Lecture Notes in Computer Science, 2008, , 626-634.	1.3	5
58	On the new robust algorithm of noise reduction in color images. Computers and Graphics, 2003, 27, 503-513.	2.5	4
59	Beyond the current noise limit in imaging through turbulent medium. Optics Letters, 2015, 40, 2181.	3.3	4
60	Overview of Grayscale Image Colorization Techniques. , 2015, , 345-370.		4
61	Self-tuning fast adaptive algorithm for impulsive noise suppression in color images. Journal of Real-Time Image Processing, 2020, 17, 1067-1087.	3.5	4
62	Textural Features for Scribble-Based Image Colorization. Advances in Intelligent and Soft Computing, 2011, , 269-278.	0.2	4
63	Selective Color Image Retrieval Based on the Gaussian Mixture Model. Lecture Notes in Computer Science, 2012, , 431-443.	1.3	4
64	Modified Bilateral Filter for the Restoration of Noisy Color Images. Lecture Notes in Computer Science, 2012, , 72-83.	1.3	4
65	Deep learning for impulsive noise removal in color digital images. , 2019, , .		4
66	<title>Application of kernel density estimation for color image filtering</title>. , 2003, 5150, 1650.		3
67	Segmentation of the Comet Assay Images. Lecture Notes in Computer Science, 2004, , 124-131.	1.3	3
68	Fast technique for mixed Gaussian and impulsive noise suppression in color images. , 2013, , .		3
69	Isoline Based Image Colorization. , 2014, , .		3
70	Robust Sharpening Vector Median Filter. , 2018, , .		3
71	Is large improvement in efficiency of impulsive noise removal in color images still possible?. PLoS ONE, 2021, 16, e0253117.	2.5	3
72	Peer Group Vector Median Filter. , 2007, , 314-323.		3

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73	Effective Color Image Retrieval Based on the Gaussian Mixture Model. Lecture Notes in Computer Science, 2011, , 199-213.	1.3	3
74	Real-time stereovision framework for underwater drone maneuvering. , 2018, , .		3
75	<title>Digital image colorization based on distance transformation</title>. , 2007, , .		2
76	Interactive colorization based on hybrid distance transform. , 2011, , .		2
77	Image and video quality improvement techniques for emerging applications. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	2
78	Visualization enhancement of segmented images using genetic algorithm. , 2014, , .		2
79	Impulsive noise suppression in color images based on the geodesic digital paths. , 2015, , .		2
80	On the Adaptive Impulsive Noise Attenuation in Color Images. Lecture Notes in Computer Science, 2006, , 307-317.	1.3	2
81	An Automated Multichannel Procedure for cDNA Microarray Image Processing. Lecture Notes in Computer Science, 2004, , 1-8.	1.3	2
82	On the Application of Distance Transformation in Digital Image Colorization. Advances in Intelligent and Soft Computing, 2007, , 108-116.	0.2	2
83	Peer Group Filter for Impulsive Noise Removal in Color Images. Lecture Notes in Computer Science, 2008, , 699-707.	1.3	2
84	Robust switching technique of impulsive noise removal in color digital images. , 2019, , .		2
85	A New Method of the Analysis of Comet Assay Images 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 239-244.	0.4	1
86	<title>Modified anisotropic diffusion framework</title>. , 2003, 5150, 1657.		1
87	<title>Three-dimensional entropy vector median filter for color video filtering</title>. , 2003, , .		1
88	Noise reduction in DNA microarray images based on digital path approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 17-22.	0.4	1
89	New segmentation methods of the comet assay images. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 129-134.	0.4	1
90	Peer group filtering of noisy color images. , 2008, , .		1

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91	On the robustified median filter for the reduction of impulsive noise in digital images. , 2014, , .		1
92	Recognition between smiling and neutral facial display with power LBP operator. , 2015, , .		1
93	Special issue on real-time color image processing. Journal of Real-Time Image Processing, 2015, 10, 189-191.	3.5	1
94	Adaptive trimmed averaging filter for noise removal in color images. , 2015, , .		1
95	Smile veracity recognition using 3D texture features for image sequence processing. , 2016, , .		1
96	Hybrid adaptation for detecting skin in color images. Intelligent Data Analysis, 2016, 20, S121-S139.	0.9	1
97	Smile Veracity Recognition Using LBP Features for Image Sequence Processing. , 2016, , .		1
98	Automated recognition of facial expressions authenticity. , 2016, , .		1
99	Fast image colourisation using the isolines concept. Multimedia Tools and Applications, 2017, 76, 15987-16009.	3.9	1
100	Color Image Retrieval Based on Mixture Approximation and Color Region Matching. Advances in Intelligent and Soft Computing, 2011, , 337-345.	0.2	1
101	A Machine-Learning Approach toÂtheÂAutomated Assessment of Joint SynovitisÂActivity. Lecture Notes in Computer Science, 2016, , 440-450.	1.3	1
102	Fast Detection and Impulsive Noise Attenuation in Color Images. Advances in Soft Computing, 2005, , 459-466.	0.4	1
103	<title>Robust retrieval of fine art paintings</title>. , 2003, , .		0
104	Gaussian Mixture Model Based Approach to Color Image Retrieval. , 2007, , .		0
105	<title>Parametric approach to the retrieval of lossy compressed color images</title>. , 2007, , .		0
106	Color image retrieval based on spatio-chromatic multichannel Gaussian mixture modelling. , 2013, , .		0
107	Real-time object recognition in multidimensional images based on joined extended structural tensor and higher-order tensor decomposition methods. , 2015, , .		0
108	Application of the local similarity filter for the suppression of multiplicative noise in medical ultrasound images. Proceedings of SPIE, 2016, , .	0.8	0

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109	On the Suppression of Mixed Gaussian Impulsive Noise in Color Images. , 2018, , .		0
110	Adaptive Generalized Vector Median Filter. Lecture Notes in Computer Science, 2008, , 30-37.	1.3	0
111	Static Posed Versus Genuine Smile Recognition. Advances in Intelligent Systems and Computing, 2018, , 423-432.	0.6	0
112	IMPULSIVE NOISE REMOVAL IN COLOR IMAGES BASED ON THE LOCAL NEIGHBORHOOD EXPLORATION BY GEODESIC DIGITAL PATHS. , 2017, , .		0
113	Evolutionary cortical surface segmentation. , 2018, , .		0
114	Robust enhancement technique for color images corrupted by impulsive noise. , 2018, , .		0
115	Visual front-end for underwater scene change detection and environment monitoring by the autonomous drone. , 2019, , .		0
116	Efficient Technique of Impulsive Noise Detection and Replacement in Color Digital Images. Smart Innovation, Systems and Technologies, 2021, , 171-185.	0.6	0