Gaurav Bhatnagar

List of Publications by Year
in descending order

89 papers	2,290 citations	304602 22 h-index	243529 44 g-index
92 all docs	92 docs citations	92 times ranked	1897 citing authors

#	ARTICLE	IF	CITATIONS
1	Directive Contrast Based Multimodal Medical Image Fusion in NSCT Domain. IEEE Transactions on Multimedia, 2013, 15, 1014-1024.	5.2	361
2	A new robust reference watermarking scheme based on DWT-SVD. Computer Standards and Interfaces, 2009, 31, 1002-1013.	3.8	207
3	A new contrast based multimodal medical image fusion framework. Neurocomputing, 2015, 157, 143-152.	3.5	145
4	Discrete fractional wavelet transform and its application to multiple encryption. Information Sciences, 2013, 223, 297-316.	4.0	111
5	Human visual system inspired multi-modal medical image fusion framework. Expert Systems With Applications, 2013, 40, 1708-1720.	4.4	105
6	Pore water sulfate, alkalinity, and carbon isotope profiles in shallow sediment above marine gas hydrate systems: A numerical modeling perspective. Journal of Geophysical Research, 2011, 116, .	3.3	83
7	Selective image encryption based on pixels of interest and singular value decomposition. , 2012, 22, 648-663.		83
8	A new robust watermarking system in integer DCT domain. Journal of Visual Communication and Image Representation, 2018, 53, 86-101.	1.7	75
9	Chaos-Based Security Solution for Fingerprint Data During Communication and Transmission. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 876-887.	2.4	63
10	Biometrics inspired watermarking based on a fractional dual tree complex wavelet transform. Future Generation Computer Systems, 2013, 29, 182-195.	4.9	61
11	The impact of lithologic heterogeneity and focused fluid flow upon gas hydrate distribution in marine sediments. Journal of Geophysical Research: Solid Earth, 2014, 119, 6705-6732.	1.4	46
12	Sulfate–methane transition as a proxy for average methane hydrate saturation in marine sediments. Geophysical Research Letters, 2008, 35, .	1.5	45
13	Mutual spectral residual approach for multifocus image fusion. , 2013, 23, 1121-1135.		45
14	Abundant Early Palaeogene marine gas hydrates despite warm deep-ocean temperatures. Nature Geoscience, 2011, 4, 848-851.	5.4	40
15	A New Fractional Random Wavelet Transform for Fingerprint Security. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 262-275.	3.4	40
16	A new robust adjustable logo watermarking scheme. Computers and Security, 2012, 31, 40-58.	4.0	37
17	Robust gray-scale logo watermarking in wavelet domain. Computers and Electrical Engineering, 2012, 38, 1164-1176.	3.0	36
18	Fusing synergistic information from multi-sensor images: An overview from implementation to performance assessment. Information Fusion, 2018, 42, 127-145.	11.7	35

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19	A novel image fusion framework for night-vision navigation and surveillance. Signal, Image and Video Processing, 2015, 9, 165-175.	1.7	32
20	Fractional dual tree complex wavelet transform and its application to biometric security during communication and transmission. Future Generation Computer Systems, 2012, 28, 254-267.	4.9	31
21	Analytical theory relating the depth of the sulfate–methane transition to gas hydrate distribution and saturation. Geochemistry, Geophysics, Geosystems, 2011, 12, .	1.0	25
22	AN IMAGE FUSION FRAMEWORK BASED ON HUMAN VISUAL SYSTEM IN FRAMELET DOMAIN. International Journal of Wavelets, Multiresolution and Information Processing, 2012, 10, 1250002.	0.9	24
23	A new robust reference logo watermarking scheme. Multimedia Tools and Applications, 2011, 52, 621-640.	2.6	23
24	A new aspect in robust digital watermarking. Multimedia Tools and Applications, 2013, 66, 179-200.	2.6	23
25	A novel chaos-based secure transmission of biometric data. Neurocomputing, 2015, 147, 444-455.	3.5	23
26	A new facet in robust digital watermarking framework. AEU - International Journal of Electronics and Communications, 2012, 66, 275-285.	1.7	22
27	A new robust and efficient multiple watermarking scheme. Multimedia Tools and Applications, 2015, 74, 8421-8444.	2.6	20
28	Biometric Inspired Multimedia Encryption Based on Dual Parameter Fractional Fourier Transform. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1234-1247.	5.9	19
29	Enhancing the transmission security of biometric images using chaotic encryption. Multimedia Systems, 2014, 20, 203-214.	3.0	18
30	Analysis and extension of multiresolution singular value decomposition. Information Sciences, 2014, 277, 247-262.	4.0	17
31	A New Image Fusion Technique Based on Directive Contrast. Electronic Letters on Computer Vision and Image Analysis, 2009, 8, 18.	0.5	17
32	Secure randomized image watermarking based on singular value decomposition. ACM Transactions on Multimedia Computing, Communications and Applications, 2013, 10, 1-21.	3.0	16
33	ROBUST REFERENCE-WATERMARKING SCHEME USING WAVELET PACKET TRANSFORM AND BIDIAGONAL-SINGULAR VALUE DECOMPOSITION. International Journal of Image and Graphics, 2009, 09, 449-477.	1.2	15
34	A new logo watermarking based on redundant fractional wavelet transform. Mathematical and Computer Modelling, 2013, 58, 204-218.	2.0	15
35	DISTRIBUTED MULTIRESOLUTION DISCRETE FOURIER TRANSFORM AND ITS APPLICATION TO WATERMARKING. International Journal of Wavelets, Multiresolution and Information Processing, 2010, 08, 225-241.	0.9	14
36	Robust logo watermarking using biometrics inspired key generation. Expert Systems With Applications, 2014, 41, 4563-4578.	4.4	14

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37	A robust image hashing based on discrete wavelet transform. , 2017, , .		14
38	Image and Video Encryption based on Dual Space-Filling Curves. Computer Journal, 2012, 55, 667-685.	1.5	13
39	Wavelet packet transform-based robust video watermarking technique. Sadhana - Academy Proceedings in Engineering Sciences, 2012, 37, 371-388.	0.8	13
40	A New Robust Reference Image Hashing System. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2211-2225.	3.7	13
41	DCT and SVD Based New Watermarking Scheme. , 2010, , .		11
42	Encryption Based Robust Watermarking in Fractional Wavelet Domain. Studies in Computational Intelligence, 2009, , 375-416.	0.7	10
43	A robust security framework for 3D images. Journal of Visualization, 2011, 14, 85-93.	1.1	10
44	SUGAMAN: describing floor plans for visually impaired by annotation learning and proximity€based grammar. IET Image Processing, 2019, 13, 2623-2635.	1.4	10
45	Stereo image coding via digital watermarking. Journal of Electronic Imaging, 2009, 18, 033012.	0.5	9
46	Real Time Human Visual System Based Framework for Image Fusion. Lecture Notes in Computer Science, 2010, , 71-78.	1.0	9
47	A simplified watermarking algorithm based on lifting wavelet transform. Multimedia Tools and Applications, 2019, 78, 20765-20786.	2.6	9
48	BRIDGE: Building Plan Repository for Image Description Generation, and Evaluation. , 2019, , .		9
49	A fractal dimension based framework for night vision fusion. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 220-227.	8.5	9
50	Image thresholding based on local activity feature matrix. Optik, 2016, 127, 9037-9045.	1.4	8
51	A Novel Biometric Inspired Robust Security Framework For Medical Images. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	4.0	8
52	Robust Watermarking in Multiresolution Walsh-Hadamard Transform. , 2009, , .		7
53	Biometric Template Security based on Watermarking. Procedia Computer Science, 2010, 2, 227-235.	1.2	7
54	ANovel Chaotic Encryption Framework for Securing Palmprint Data. Procedia Computer Science, 2012, 10, 442-449.	1.2	7

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55	SVD Filter Based Multiscale Approach for Image Quality Assessment. , 2012, , .		7
56	Joint watermarking and encryption for still visual data. Multimedia Tools and Applications, 2013, 67, 593-606.	2.6	7
57	A robust blind watermarking framework based on Dn structure. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 1869-1887.	3.3	7
58	Human Visual System Based Framework for Concealed Weapon Detection. , 2011, , .		6
59	Multi-Sensor Fusion Based on Local Activity Measure. IEEE Sensors Journal, 2017, 17, 7487-7496.	2.4	6
60	Plan2Text: A framework for describing building floor plan images from first person perspective. , 2018, , .		6
61	A robust watermarking scheme based on image normalization. , 2018, , .		6
62	A secure image encryption algorithm based on polar decomposition. , 2018, , .		6
63	A Novel Chaos Based Robust Watermarking Framework. Advances in Intelligent Systems and Computing, 2017, , 439-447.	0.5	5
64	Knowledge-driven description synthesis for floor plan interpretation. International Journal on Document Analysis and Recognition, 2021, 24, 19.	2.7	5
65	Robust Watermarking Scheme Based on Multiresolution Fractional Fourier Transform. , 2008, , .		4
66	A Robust Watermarking Scheme using Best Tree Wavelet Packet Transform. , 2009, , .		4
67	Navigation and surveillance using night vision and image fusion. , 2011, , .		4
68	Robust covert communication using high capacity watermarking. Multimedia Tools and Applications, 2017, 76, 3783-3807.	2.6	4
69	A New SVD Based Watermarking Framework in Fractional Fourier Domain. Communications in Computer and Information Science, 2010, , 107-118.	0.4	4
70	Security of Stereo Images During Communication and Transmission. Advanced Science Letters, 2012, 6, 173-179.	0.2	4
71	Dual Watermarking Scheme via Sub-Sampling in WPT-SVD Domain. , 2008, , .		3
72	How to discover the Rogers-Ramanujan identities. Resonance, 2015, 20, 416-430.	0.2	3

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73	WAVELET ANALYSIS OF SURFACE MORPHOLOGIES OF MAGNETRON SPUTTERED Al-Cu THIN FILMS. International Journal of Wavelets, Multiresolution and Information Processing, 2009, 07, 59-74.	0.9	2
74	Robust Watermarking Using Distributed MR-DCT and SVD. , 2009, , .		2
75	ASYSST. , 2018, , .		2
76	LayART: Generating indoor layout using ARCore Transformations. , 2020, , .		2
77	A Chaos Based Robust and Secure Image Hashing Framework. , 2018, , .		2
78	A ÂWatermarking Scheme for ÂProtection. Advances in Intelligent Systems and Computing, 2020, , 431-443.	0.5	2
79	A Novel Security Framework for Medical Data in IoT Ecosystems. IEEE MultiMedia, 2022, 29, 34-44.	1.5	2
80	GRIHA: synthesizing 2-dimensional building layouts from images captured using a smart phone. Multimedia Tools and Applications, 2022, 81, 14589-14612.	2.6	2
81	A Blend of Analytical and Numerical Methods to Compute Orthogonal Image Moments over a Unit Disk. Wireless Communications and Mobile Computing, 2022, 2022, 1-15.	0.8	2
82	A new robust reference watermarking framework in Gyrator domain. , 2011, , .		1
83	Edge Based Robust and Secure Perceptual Hashing Framework. Communications in Computer and Information Science, 2021, , 490-500.	0.4	1
84	Performance Evaluation of Multiresolution Methods in Disparity Estimation. Lecture Notes in Computer Science, 2010, , 496-504.	1.0	1
85	A Reference Based Secure and Robust Zero Watermarking System. Advances in Intelligent Systems and Computing, 2020, , 325-337.	0.5	1
86	Mathematical formation and analysis of COVID-19 pool tests strategies. Epidemiologic Methods, 2021, 10, .	0.8	1
87	The partition-frequency enumeration matrix. Ramanujan Journal, 2022, 59, 51-86.	0.4	1
88	A Novel Watermarking Technique for Multimedia Security. , 2019, , 89-118.		0
89	Distributed Multiresolution Transform Based Framework for Watermarking. Advances in IT Standards and Standardization Research Series, 0, , 1-29.	0.2	0