Umesh Ghanekar

List of Publications by Year
in descending order

52	606	623734	642732
papers	citations	14	23
		h-index	g-index
55	55	55	348
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Contrast Enhancement-Based Filter for Removal of Random Valued Impulse Noise. IEEE Signal Processing Letters, 2010, 17, 47-50.	3.6	70
2	Image steganography based on Canny edge detection, dilation operator and hybrid coding. Journal of Information Security and Applications, 2018, 41, 41-51.	2.5	67
3	Design of nonâ€restoring binary array divider in majority logicâ€based QCA. Electronics Letters, 2016, 52, 2001-2003.	1.0	45
4	Efficient design of coplanar ripple carry adder in QCA. IET Circuits, Devices and Systems, 2018, 12, 594-605.	1.4	32
5	Switching median filter: advanced boundary discriminative noise detection algorithm. IET Image Processing, 2011, 5, 598.	2.5	26
6	In-depth Comparative Analysis of Reversible Gates for Designing Logic Circuits. Procedia Computer Science, 2018, 125, 810-817.	2.0	25
7	A Review on Online Testability for Reversible Logic. Procedia Computer Science, 2015, 70, 384-391.	2.0	23
8	A compendious study of super-resolution techniques by single image. Optik, 2018, 166, 147-160.	2.9	23
9	Design and Implementation of QCA D-Flip-Flops and RAM Cell Using Majority Gates. Journal of Circuits, Systems and Computers, 2019, 28, 1950079.	1.5	23
10	Toward Efficient Design of Reversible Logic Gates in Quantum-Dot Cellular Automata with Power Dissipation Analysis. International Journal of Theoretical Physics, 2018, 57, 1167-1185.	1.2	19
11	A review on Single Image Super Resolution techniques using generative adversarial network. Optik, 2022, 266, 169607.	2.9	19
12	Robust watermarking technique for textured images. Procedia Computer Science, 2018, 125, 179-186.	2.0	18
13	Design of QCA-Based D Flip Flop and Memory Cell Using Rotated Majority Gate. Advances in Intelligent Systems and Computing, 2019, , 233-247.	0.6	18
14	A new DFT methodology for k-CNOT reversible circuits and its implementation using quantum-dot cellular automata. Optik, 2016, 127, 10593-10601.	2.9	16
15	Offline Testing of Reversible Logic Circuits: An Analysis. The Integration VLSI Journal, 2018, 62, 50-67.	2.1	15
16	A hybrid technique to discriminate Natural Images, Computer Generated Graphics Images, Spliced, Copy Move tampered images and Authentic images by using features and ELM classifier. Optik, 2018, 172, 470-483.	2.9	15
17	Testable Design of Reversible Circuits Using Parity Preserving Gates. IEEE Design and Test, 2018, 35, 56-64.	1.2	14
18	Speech enhancement - an enhanced principal component analysis (EPCA) filter approach. Computers and Electrical Engineering, 2020, 85, 106657.	4.8	13

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19	A Rotationally Invariant Texture Descriptor to Detect Copy Move Forgery in Medical Images. , 2015, , .		12
20	Design of Reversible Arithmetic Logic Unit with Built-In Testability. IEEE Design and Test, 2019, 36, 54-61.	1.2	12
21	Classification of priors and regularization techniques appurtenant to single image super-resolution. Visual Computer, 2020, 36, 1291-1304.	3.5	12
22	Heteroatom induced tailoring electronic and optical properties of V3C2 MXene through bandgap opening: A computational insight. Chemical Physics Letters, 2022, 799, 139639.	2.6	8
23	Design and Analysis of Ultra-Low Power QCA Parity Generator Circuit. Lecture Notes in Electrical Engineering, 2018, , 347-354.	0.4	7
24	Single image super-resolution using multi-scale feature enhancement attention residual network. Optik, 2021, 231, 166359.	2.9	7
25	Software Defect Density Prediction based on Multiple Linear Regression. , 2020, , .		6
26	Local pixel statistics based impulse detection and hybrid color filtering for restoration of digital color images. AEU - International Journal of Electronics and Communications, 2011, 65, 1073-1077.	2.9	5
27	A Hybrid Data Hiding Scheme to Enhance the Capacity of One-Third Probability Embedding Method. , 2015, , .		5
28	Simplification and modification of multiple controlled Toffoli circuits for testability. Journal of Computational Electronics, 2019, 18, 356-363.	2.5	5
29	Fault detection in multiple controlled Fredkin circuits. IET Circuits, Devices and Systems, 2019, 13, 723-729.	1.4	5
30	Variance Based External Dictionary for Improved Single Image Super-Resolution. Pattern Recognition and Image Analysis, 2020, 30, 70-75.	1.0	4
31	Robust Watermarking Using DWT and Weighted SVD. , 2018, , .		3
32	A Novel Multi-Core Approach for Functional Safety Compliance of Automotive Electronic Control Unit According to ISO 26262. , 2019, , .		3
33	Speech intelligibility enhancement: a hybrid wiener approach. International Journal of Speech Technology, 2020, 23, 517-525.	2.2	3
34	Design for Stuck-at Fault Testability in Toffoliâ€"Fredkin Reversible Circuits. The National Academy of Sciences, India, 2021, 44, 215-220.	1.3	3
35	A Hybrid Single Image Super-Resolution Technique Using Fractal Interpolation and Convolutional Neural Network. Pattern Recognition and Image Analysis, 2021, 31, 18-23.	1.0	3
36	An Efficient Design of Scalable Reversible Multiplier with Testability. Journal of Circuits, Systems and Computers, 2022, 31, .	1.5	3

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37	A Conspectus of Deep Learning Techniques for Single-Image Super-Resolution. Pattern Recognition and Image Analysis, 2022, 32, 11-32.	1.0	3
38	An intensity independent fixed valued impulse noise detector for image restoration. AEU - International Journal of Electronics and Communications, 2014, 68, 210-215.	2.9	2
39	Transform domain fragile watermarking using fermat number transform. , 2015, , .		2
40	Denoising of colour images using window contrast enhancement and vector alignment. AEU - International Journal of Electronics and Communications, 2015, 69, 523-528.	2.9	2
41	An Efficient Single-Layer Crossing Based 4-Bit Shift Register Using QCA. Advances in Intelligent Systems and Computing, 2018, , 315-325.	0.6	2
42	Improved fragile watermarking by encoding of the zeroes of Z-Transform. , 2015, , .		1
43	Random valued impulse noise removal using adaptive neuro -fuzzy impulse detector. , 2015, , .		1
44	RDCN-SR: Integrating regression model with deep convolutional networks for image super-resolution. , 2017, , .		1
45	Dominating direction based an efficient copyâ€"move image tampering detection technique. Imaging Science Journal, 2018, 66, 254-262.	0.5	1
46	Functional Verification of MAC-PHY Layer of PCI Express Gen5.0 with PIPE Interface using UVM. , 2020, , .		1
47	Digital Image Forensics Using Local Optimal-Oriented Pattern and ELM. Advances in Intelligent Systems and Computing, 2020, , 311-319.	0.6	1
48	Adaptive threshold based impulse detection for restoration of digital images. , 2016, , .		0
49	Integrating regression model with Gaussian mixture model for image super-resolution. , 2017, , .		0
50	A Novel Hazard Analysis and Risk Assessment for Automotive Embedded System Development as Safety Element Out of Context. , 2019, , .		0
51	A novel double pole transfer functionâ€"single frequency filtering approach for speech enhancement. Transactions on Emerging Telecommunications Technologies, 2020, 31, e4038.	3.9	0
52	Impulse Noise Removal from Color Images Using Adaptive Neuroâ€"fuzzy Impulse Detector. Communications in Computer and Information Science, 2010, , 373-380.	0.5	0