Umesh Ghanekar

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	An Efficient Design of Scalable Reversible Multiplier with Testability. Journal of Circuits, Systems and Computers, 2022, 31, .	1.5	3
2	A Conspectus of Deep Learning Techniques for Single-Image Super-Resolution. Pattern Recognition and Image Analysis, 2022, 32, 11-32.	1.0	3
3	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
4	A review on Single Image Super Resolution techniques using generative adversarial network. Optik, 2022, 266, 169607.	2.9	19
5	Design for Stuck-at Fault Testability in Toffoliâ€"Fredkin Reversible Circuits. The National Academy of Sciences, India, 2021, 44, 215-220.	1.3	3
6	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
7	Single image super-resolution using multi-scale feature enhancement attention residual network. Optik, 2021, 231, 166359.	2.9	7
8	Classification of priors and regularization techniques appurtenant to single image super-resolution. Visual Computer, 2020, 36, 1291-1304.	3.5	12
9	Speech intelligibility enhancement: a hybrid wiener approach. International Journal of Speech Technology, 2020, 23, 517-525.	2.2	3
10	Software Defect Density Prediction based on Multiple Linear Regression. , 2020, , .		6
11	Functional Verification of MAC-PHY Layer of PCI Express Gen5.0 with PIPE Interface using UVM. , 2020, , .		1
12	A novel double pole transfer functionâ€single frequency filtering approach for speech enhancement. Transactions on Emerging Telecommunications Technologies, 2020, 31, e4038.	3.9	0
13	Speech enhancement - an enhanced principal component analysis (EPCA) filter approach. Computers and Electrical Engineering, 2020, 85, 106657.	4.8	13
14	Variance Based External Dictionary for Improved Single Image Super-Resolution. Pattern Recognition and Image Analysis, 2020, 30, 70-75.	1.0	4
15	Digital Image Forensics Using Local Optimal-Oriented Pattern and ELM. Advances in Intelligent Systems and Computing, 2020, , 311-319.	0.6	1
16	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
17	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
18	Simplification and modification of multiple controlled Toffoli circuits for testability. Journal of Computational Electronics, 2019, 18, 356-363.	2.5	5

#	Article	IF	Citations
19	Design of Reversible Arithmetic Logic Unit with Built-In Testability. IEEE Design and Test, 2019, 36, 54-61.	1.2	12
20	A Novel Multi-Core Approach for Functional Safety Compliance of Automotive Electronic Control Unit According to ISO 26262. , 2019, , .		3
21	Fault detection in multiple controlled Fredkin circuits. IET Circuits, Devices and Systems, 2019, 13, 723-729.	1.4	5
22	A Novel Hazard Analysis and Risk Assessment for Automotive Embedded System Development as Safety Element Out of Context. , 2019, , .		0
23	Testable Design of Reversible Circuits Using Parity Preserving Gates. IEEE Design and Test, 2018, 35, 56-64.	1.2	14
24	Robust watermarking technique for textured images. Procedia Computer Science, 2018, 125, 179-186.	2.0	18
25	In-depth Comparative Analysis of Reversible Gates for Designing Logic Circuits. Procedia Computer Science, 2018, 125, 810-817.	2.0	25
26	Offline Testing of Reversible Logic Circuits: An Analysis. The Integration VLSI Journal, 2018, 62, 50-67.	2.1	15
27	Design and Analysis of Ultra-Low Power QCA Parity Generator Circuit. Lecture Notes in Electrical Engineering, 2018, , 347-354.	0.4	7
28	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
29	Dominating direction based an efficient copy–move image tampering detection technique. Imaging Science Journal, 2018, 66, 254-262.	0.5	1
30	A compendious study of super-resolution techniques by single image. Optik, 2018, 166, 147-160.	2.9	23
31	An Efficient Single-Layer Crossing Based 4-Bit Shift Register Using QCA. Advances in Intelligent Systems and Computing, 2018, , 315-325.	0.6	2
32	Robust Watermarking Using DWT and Weighted SVD. , 2018, , .		3
33	Efficient design of coplanar ripple carry adder in QCA. IET Circuits, Devices and Systems, 2018, 12, 594-605.	1.4	32
34	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
35	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
36	RDCN-SR: Integrating regression model with deep convolutional networks for image super-resolution. , 2017, , .		1

#	Article	IF	Citations
37	Integrating regression model with Gaussian mixture model for image super-resolution. , 2017, , .		0
38	Adaptive threshold based impulse detection for restoration of digital images. , 2016, , .		0
39	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
40	Design of nonâ€restoring binary array divider in majority logicâ€based QCA. Electronics Letters, 2016, 52, 2001-2003.	1.0	45
41	Transform domain fragile watermarking using fermat number transform. , 2015, , .		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	A Review on Online Testability for Reversible Logic. Procedia Computer Science, 2015, 70, 384-391.	2.0	23
45	A Hybrid Data Hiding Scheme to Enhance the Capacity of One-Third Probability Embedding Method. , 2015, , .		5
46	A Rotationally Invariant Texture Descriptor to Detect Copy Move Forgery in Medical Images. , 2015, , .		12
47	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
48	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
49	Switching median filter: advanced boundary discriminative noise detection algorithm. IET Image Processing, 2011, 5, 598.	2.5	26
50	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
51	A Contrast Enhancement-Based Filter for Removal of Random Valued Impulse Noise. IEEE Signal Processing Letters, 2010, 17, 47-50.	3.6	70
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