

# Umesh Ghanekar

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

606  
citations

623188

14  
h-index

642321

23  
g-index

55  
all docs

55  
docs citations

55  
times ranked

348  
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.  | 2.1 | 70        |
| 2  | Image steganography based on Canny edge detection, dilation operator and hybrid coding. Journal of Information Security and Applications, 2018, 41, 41-51.  | 1.8 | 67        |
| 3  | Design of non-restoring binary array divider in majority logic-based QCA. Electronics Letters, 2016, 52, 2001-2003.   | 0.5 | 45        |
| 4  | Efficient design of coplanar ripple carry adder in QCA. IET Circuits, Devices and Systems, 2018, 12, 594-605.   | 0.9 | 32        |
| 5  | Switching median filter: advanced boundary discriminative noise detection algorithm. IET Image Processing, 2011, 5, 598.  | 1.4 | 26        |
| 6  | In-depth Comparative Analysis of Reversible Gates for Designing Logic Circuits. Procedia Computer Science, 2018, 125, 810-817.  | 1.2 | 25        |
| 7  | A Review on Online Testability for Reversible Logic. Procedia Computer Science, 2015, 70, 384-391.  | 1.2 | 23        |
| 8  | A compendious study of super-resolution techniques by single image. Optik, 2018, 166, 147-160.  | 1.4 | 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.   | 1.0 | 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.                          | 0.5 | 19        |
| 11 | A review on Single Image Super Resolution techniques using generative adversarial network. Optik, 2022, 266, 169607.  | 1.4 | 19        |
| 12 | Robust watermarking technique for textured images. Procedia Computer Science, 2018, 125, 179-186.   | 1.2 | 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.  | 0.5 | 18        |
| 14 | A new DFT methodology for k-CNOT reversible circuits and its implementation using quantum-dot cellular automata. Optik, 2016, 127, 10593-10601.   | 1.4 | 16        |
| 15 | Offline Testing of Reversible Logic Circuits: An Analysis. The Integration VLSI Journal, 2018, 62, 50-67.   | 1.3 | 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. | 1.4 | 15        |
| 17 | Testable Design of Reversible Circuits Using Parity Preserving Gates. IEEE Design and Test, 2018, 35, 56-64.  | 1.1 | 14        |
| 18 | Speech enhancement - an enhanced principal component analysis (EPCA) filter approach. Computers and Electrical Engineering, 2020, 85, 106657.   | 3.0 | 13        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 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.   | 1.1 | 12        |
| 21 | Classification of priors and regularization techniques appartenant to single image super-resolution. Visual Computer, 2020, 36, 1291-1304.   | 2.5 | 12        |
| 22 | Heteroatom induced tailoring electronic and optical properties of V3C2 MXene through bandgap opening: A computational insight. Chemical Physics Letters, 2022, 799, 139639.                            | 1.2 | 8         |
| 23 | Design and Analysis of Ultra-Low Power QCA Parity Generator Circuit. Lecture Notes in Electrical Engineering, 2018, , 347-354.   | 0.3 | 7         |
| 24 | Single image super-resolution using multi-scale feature enhancement attention residual network. Optik, 2021, 231, 166359.  | 1.4 | 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. | 1.7 | 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.  | 1.3 | 5         |
| 29 | Fault detection in multiple controlled Fredkin circuits. IET Circuits, Devices and Systems, 2019, 13, 723-729.   | 0.9 | 5         |
| 30 | Variance Based External Dictionary for Improved Single Image Super-Resolution. Pattern Recognition and Image Analysis, 2020, 30, 70-75.  | 0.6 | 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.   | 1.4 | 3         |
| 34 | Design for Stuck-at Fault Testability in Toffoli's Fredkin Reversible Circuits. The National Academy of Sciences, India, 2021, 44, 215-220.  | 0.8 | 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.                                | 0.6 | 3         |
| 36 | An Efficient Design of Scalable Reversible Multiplier with Testability. Journal of Circuits, Systems and Computers, 2022, 31, .  | 1.0 | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | A Conspectus of Deep Learning Techniques for Single-Image Super-Resolution. Pattern Recognition and Image Analysis, 2022, 32, 11-32.  | 0.6 | 3         |
| 38 | An intensity independent fixed valued impulse noise detector for image restoration. AEU - International Journal of Electronics and Communications, 2014, 68, 210-215.         | 1.7 | 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.          | 1.7 | 2         |
| 41 | An Efficient Single-Layer Crossing Based 4-Bit Shift Register Using QCA. Advances in Intelligent Systems and Computing, 2018, , 315-325.                                      | 0.5 | 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.   | 0.2 | 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.   | 0.5 | 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. | 2.6 | 0         |
| 52 | Impulse Noise Removal from Color Images Using Adaptive Neuroâ€fuzzy Impulse Detector. Communications in Computer and Information Science, 2010, , 373-380.                    | 0.4 | 0         |