

## Web of science/Scopus journals

Year	List of publications
2018	<ol style="list-style-type: none"> <li>1. Rabindra Barik, Amaresh Chandra Dubey, T Pratik, Rakesh Kumar Lenka, Harishchandra Dubey, Kunal Mankodiya and <b>Vinay Kumar</b>, “<i>MistData: Leveraging Mist Computing for Secure and Scalable Architecture for Smart and Connected Health</i>”, <i>Procedia Computer Science</i>, Elsevier Vol. 125, pp. 647-653, 2018 (Best Paper Award).</li> <li>2. Akshay Kulkarni, <b>Vinay Kumar</b>, Pankaj Dhule, Sanjay Kumar Mishra, Anvita Tripathi and Rabindra Barik, “<i>Optical Filter Enabled Continuous Disinfection of Hospital Rooms using Multi-Sensor Feedback Aided Light Source</i>” <i>Procedia Computer Science</i>, Elsevier, Vol. 125, pp. 459-467, 2018.</li> </ol>
2017	<ol style="list-style-type: none"> <li>3. Gokhale, Aniket V., Kishor K. Bhoyar, and Kishor M. Bhurchandi. "Color Particle Filter Tracking using Frame Segmentation based on JND Color and Spatial Connectivity 4-D Histogram." <i>IOSR Journal of VLSI and Signal Processing (IOSR-JVSP)</i>, Vol. 7, Issue 3, pp 46-54, 2017</li> <li>4. Gokhale, Aniket V., Kishor K. Bhoyar, and Kishor M. Bhurchandi. "Color Image Segmentation based on 4-D Histogram using JND Color and Spatial Connectivity." <i>International Journal of Computer Applications</i> Vol. 167, Issue 10, June 2017</li> <li>5. Neole, Bhumika A., Bhagyashree V. Lad, and K. M. Bhurchandi. "Denoising of digital images using consolidation of edges and separable wavelet transform." <i>International Journal of Computer Applications</i>, Vol. 168, Issue 10, 2017</li> <li>6. Md Farukh Hashmi, Avinash G Keskar, “An Optimized FPGA Implementation of CAN 2.0 Protocol Error Detection Circuitry”, <i>Indonesian Journal of Electrical Engineering and Computer Science</i>, Volume 6, Issue 3, pp. 602-614, 2017</li> <li>7. Varun Tiwari, Avinash Keskar, NC Shivaprakash, “Towards creating a reference based self-learning model for improving human machine interaction”, <i>CSI transactions on ICT</i>, Volume 5, Issue 2, pp 201-208, 2017</li> <li>8. Varun Tiwari, Avinash Keskar, NC Shivaprakash, “A Reconfigurable IoT Architecture with Energy Efficient Event-Based Data Traffic Reduction Scheme.”, <i>International Journal of Online Engineering</i>, Volume 13, Issue 2, 2017</li> <li>9. VR Satpute, KD Kulat, AG Keskar, “Comparative analysis of video compression mechanisms using 3D-DWT based video encoding along with EZW”, <i>International Journal of Computational Vision and Robotics</i>, Volume 7, Issue 4, pp 411-425, 2017</li> <li>10. Shyam PM Prasad, Radhika Swarnkar, Mohammad Farukh Hashmi, Avinash G Keskar, ”Design and Implementation of a Speller based on EMG Signal”, <i>International Journal Of Computational Intelligence Systems</i>, Volume 10, Issue 1, Pages 266-276, 2017</li> <li>11. Shyam Prasad PM, Radhika Swarnkar, Mohammad Farukh Hashmi, Avinash G Keskar, “Design and Implementation of a Speller based on EMG Signal”, <i>International Journal of Computational Intelligence Systems</i>, Vol. 10, Issue 1, pp. 266–276, 2017</li> <li>12. Bokde, Neeraj Dhanraj, Aditya Gupta, and Kishore Kulat. "Backward Elimination Approach of Regression Model to Decide the Road Safety Policies Across the States in India." <i>Indian Journal of Science and Technology</i>, Vol. 9, Issue 48, 2017</li> <li>13. Gupta, Aditya, K D Kulat, Neeraj Bokde, Dushyant Marathe. "Leakage Reduction in Water Distribution Systems with Efficient Placement and Control of Pressure Reducing Valves Using Soft Computing Techniques." <i>Engineering, Technology &amp; Applied Science Research</i>, Vol. 7, Issue 2, pp-1528-1534, 2017</li> <li>14. Patil, Rupali B., K. D. Kulat, and A. S. Gandhi. "GMSK Based Real Time Video Transmission on SDR Platform." <i>International Journal of Applied Engineering Research</i>, Vol. 12, Issue 15, pp 5089-5093, 2017</li> <li>15. Singh, Sandeep Kumar, Anagha P. Rathkanthiwar, and Abhay S. Gandhi. "New Algorithm for Time and Frequency Synchronization in MIMO-OFDM Systems." <i>Wireless Personal Communications: 1-13</i>, Vol 93, Issue 2, March 2017 DOI: 10.1007/s11277-017-4090-x</li> </ol>

2016	<ol style="list-style-type: none"> <li>1. Bawane, Madhuri N., and K. M. Bhurchandi. "Classification of Mental Tasks using EEG and Hierarchical Classifier employing Optimised Neural Networks." <i>International Journal of Computer Applications</i>, Vol. 133, Issue 13, 2016</li> <li>2. Sahu, Megha, and K. M. Bhurchandi. "Color Image Segmentation using Genetic Algorithm." <i>Int. J. Comput. Appl.</i>, Vol. 140 (2016), pp 15-20, 2016</li> <li>3. Varun Tiwari, Avinash Keskar, NC Shivaprakash," Design of an IoT Enabled Local Network Based Home Monitoring System with a Priority Scheme", <i>Engineering, Technology &amp; Applied Science Research</i>, Volume 7, Issue 2, Pages 1464-1472, 2016</li> <li>4. Mohammad Farukh Hashmi, Avinash G Keskar, Vikas Yadav, "Fuzzy Based Image Forensic Tool for Detection and Classification of Image Cloning", <i>International Journal of Computational Intelligence Systems</i>, Volume 9, Issue 2, Pages 351-375, 2016</li> <li>5. Vibha Bafna Bora, Ashwin G Kothari, Avinash G Keskar, "Robust Automatic Pectoral Muscle Segmentation from Mammograms Using Texture Gradient and Euclidean Distance Regression", <i>Journal of digital imaging</i>, Volume 29, Issue 1, Pages 115-125, 2016</li> <li>6. Mohammad Farukh Hashmi, Ritu Pal, Rajat Saxena, Avinash G Keskar, "A new approach for real time object detection and tracking on high resolution and multi-camera surveillance videos using GPU", <i>Journal of Central South University</i>, Volume 23, Issue 1, Pages 130-144, 2016</li> <li>7. Gupta, Aditya, Sudhir Mishra, Neeraj Bokde, Kishore Kulat "Need of Smart Water Systems In India." <i>International Journal of Applied Engineering Research</i>, Vol. 11, Issue 4, pp 2216-2223, 2016</li> <li>8. Bokde, Neeraj, G.L Bodhe, Naresh Bokade, K D Kulat, "Development of adaptive and customizable Base Station system in Wireless Sensor Network." <i>International Journal of Applied Engineering Research</i>, Vol. 11, Issue 1, pp 33-39, November 2016</li> <li>9. N. Anvesh Kumar, A. S. Gandhi, "A Compact Novel Three-Port Integrated Wide and Narrow Band Antennas System for Cognitive Radio Applications," <i>International Journal of Antennas and Propagation</i>, vol. 2016, Article ID 2829357, 14 pages, 2016. doi:10.1155/2016/2829357</li> <li>10. KS Tiwari, AG Kothari, "Design of intelligent system for medical applications using rough set theory", <i>International Journal of Data Mining, Modelling and Management</i>, Vol. 8, Issue 3, pp 279. doi:10.1504/ijdm.2016.079069, 2016</li> <li>11. RG Sutar, AG Kothari, "An Algorithm for Detection of ECG Morphological Points Using its Non-Linear Energy", <i>Inderscience, International Journal of Biomedical Engineering and Technology (JBET)</i>, Vol. 22, Issue 1, pp.14-30, 2016</li> <li>12. Ragina C. Ghutke, Ch. Naveen, V. R. Satpute, "A Novel Approach for Video Frame Interpolation using Cubic Motion Compensation Technique", <i>International Journal of Applied Engineering Research</i>, ISSN 0973-4562, Volume 11, pp 7139-7146, Number 10, 2016</li> <li>13. Prathamesh Gangal, Vishal Sapute, "Fast and Precise method for object detection in real-time video application", <i>International Journal of Control Theory and Applications (IJCTA)</i>, Vol. 9, Issue 41, pp 909-917, 2016</li> </ol>
2015	<ol style="list-style-type: none"> <li>1. Patil, Hemprasad Y., Ashwin G. Kothari, and Kishor M. Bhurchandi. "Eye-Strip based Person Identification based on Non-Subsampled Contourlet Transform." <i>International Journal of Computer Applications</i>, Vol. 121, Issue 12, 2015</li> <li>2. Dubey, Amartansh, and K. M. Bhurchandi. "Robust and real time detection of curvy lanes (curves) with desired slopes for driving assistance and autonomous vehicles." <i>arXiv preprint arXiv:1501.03124</i>, 2015</li> <li>3. Kumar, Pawan, and Kishore Bhurchandi. "Image denoising using ridgelet shrinkage." <i>Sixth International Conference on Graphic and Image Processing (ICGIP 2014)</i>. International Society for Optics and Photonics, Vol.9443, 2015.</li> <li>4. Latha, P. Sneha, Pawan Kumar, Samruddhi Kahu, Kishore Bhurchandi, "Segmentation of color images using genetic algorithm with image histogram." <i>Seventh International Conference on Machine Vision (ICMV 2014)</i>. International Society for Optics and Photonics, Vol. 9445, 2015.</li> <li>5. Mohammad Farukh Hashmi, Avinash G Keskar, "Block and Fuzzy Techniques Based Forensic Tool for Detection and Classification of Image Forgery", <i>Journal of Electrical Engineering and Technology</i>, Volume 4, Pages 1886-1898, 2015</li> </ol>

	<ol style="list-style-type: none"> <li>6. Mohammad Farukh Hashmi, Avinash G Keskar, "Image Forgery Authentication and Classification using Hybridization of HMM and SVM Classifier", <i>International Journal of Security &amp; Its Applications</i>, Volume 9, Pages 125-140, 2015</li> <li>7. Mohammad Farukh Hashmi, Avinash G Keskar, Ravula Sai Kiran Reddy, Ambati Uday Kaushik, "Ghost Vehicle and Shadow Removal Approach for Traffic Surveillance and Monitoring at Various Intersections Using Computer Vision", <i>International Journal of Multimedia and Ubiquitous Engineering</i>, Volume 10, Issue 3, Pages 375-388, 2015</li> <li>8. Vishal R Satpute, Ch Naveen, Kishore D Kulat, Avinash G Keskar, "Fast and Memory Efficient 3D-DWT Based Video Encoding Techniques with EZW Based Video Compression Mechanism", <i>Transactions on Engineering Technologies</i>, Pages 397-412, 2015</li> </ol>
2014	<ol style="list-style-type: none"> <li>1. Mohammad F Hashmi, Aaditya R Hambarde, Avinash G Keskar, "Robust Image Authentication Based on HMM and SVM Classifiers", <i>Engineering Letters</i>, Volume 22, Issue 4, 2014</li> <li>2. SB Dhok, RB Deshmukh, AG Keskar, "Efficient fractal image coding using fast Fourier transform", <i>GSTF Journal on Computing (JoC)</i>, Volume 1, Issue 2, 2014</li> </ol>
2013	<ol style="list-style-type: none"> <li>1. Parlewar, P. K., and K. M. Bhurchandi. "A 4-quadrant curvelet transform for denoising digital images." <i>International Journal of Automation and Computing</i>, Vol. 10, Issue 3, pp 217-226, 2013</li> </ol>
2012	<ol style="list-style-type: none"> <li>1. Parlewar, P. K., and K. M. Bhurchandi. "Quadrature Radon Transform for Smoother Tomographic Reconstruction." <i>Quadrature</i>, Vol.3, Issue 4, 2012</li> <li>2. Pradnya H Ghare, AG Kothari, AG Keskar, "Evaluation of Scalability Issue of 802.15. 4 MAC forBody Area Networks", <i>International Journal of Computer and Electrical Engineering</i>, Volume 4, Issue 5, pp 718, 2012</li> <li>3. Kanchan S Tiwari, Ashwin G Kothari, Avinash G Keskar, "Reduct generation from binary discernibility matrix: an hardware approach", <i>International Journal of Future Computer and Communication</i>, Volume 1, Issue 3, pp 270, 2012</li> </ol>
2011	<ol style="list-style-type: none"> <li>1. Raut, Rajesh B., and Kishor M. Bhurchandi. "Color Image Watermarking using JND Sampling Technique." <i>Watermark</i>, Vol. 2, Issue 6, 2011</li> <li>2. Hingway, S., and K. M. Bhurchandi. "An improved shock graph for an improved object recognition." <i>Cyber Journals: Multidisciplinary Journals in Science and Technology, Journal of Selected Areas in Software Engineering (JSSE), May Edition (2011)</i>.</li> <li>3. AD Tete, AY Deshmukh, "Design of cortical neuron circuits with VLSI design approach", <i>International Journal on Soft Computing</i>, Volume 2, Issue 4, pp 45, 2011</li> </ol>
2010	<ol style="list-style-type: none"> <li>1. Asamwar, Rohini S., Kishor M. Bhurchandi, and Abhay S. Gandhi. "Interpolation of images using discrete wavelet transform to simulate image resizing as in human vision." <i>International Journal of Automation and Computing</i>, Vol.7, Issue 1, pp 9-16, 2010</li> <li>2. Bhurchandi, Kishor, and A. S. Gandhi. "Successive image interpolation using lifting scheme approach." <i>Journal of Computer Science</i>, Vol. 6, Issue 9, pp 969, 2010</li> <li>3. Ashwin Kothari, Avinash Keskar, "Uann based pattern classifier using rough set approach", <i>International Journal of Pattern Recognition and Artificial Intelligence</i>, Volume 24, Issue 07, pp 1091-1109, 2010</li> <li>4. SS Dorle, AG Keskar, Megha Chakole, "Traffic Controller Network for Collision Detection and Warning at Intersection", <i>IJCSNS</i>, Volume 10, Issue 4, pp 87, 2010</li> <li>5. Dr ST Gandhe KT Talele, Dr AG Keskar, "Steganography security for copyright protection of digital images using dwt", <i>International Journal of Computer and Network Security</i>, Volume 2, Issue 4, 2010</li> </ol>
2009	<ol style="list-style-type: none"> <li>1. Asamwar, Rohini S., Kishor M. Bhurchandi, and Abhay S. Gandhi. "Piecewise lifting scheme based DWT to model human vision interpolation phenomenon." <i>Proceedings of the World Congress on Engineering</i>. Vol. 1, 2009.</li> <li>2. Ashwini S Gawarle, AY Deshmukh, AG Keskar, "Towards Fuzzy Adaptive Resonance Theory Structure Designs with VLSI", <i>Digital Technology Journal</i>, Volume 2, Issue 1, 2009</li> </ol>

	<ol style="list-style-type: none"> <li>3. SS Dorle, AG Keskar, Megha B Chakole, "Design of MAC Protocol in Vehicle Safety System Using Dedicated Short Range Communications (DSRC)", Digital Technology Journal, Volume 2, Issue 1, 2009</li> <li>4. Ashwin Kothari, Avinash Keskar, "Rough Set Approach for Overall Performance Improvement of an Unsupervised ANN-Based Pattern Classifier. ", JACIII, Vol. 13, Issue 4, pp 434-440, 2009</li> <li>5. Kapil K Jajulwar, AY Deshmukh, PR Bajaj, GH Principal, AG Keskar, "Genetic Optimization of Fuzzy Logic controllers", International Journal of Simulation: Systems, Science and Technology, Vol. 10, Issue 4, pp 19-24, 2009</li> <li>6. Pravin P Ashtankar, Sanjay S Dorle, M Chakole, Avinash G Keskar, "Design Approach for Anti-collision Mechanism between Vehicle to Vehicle for Improving Safety Operation In Intelligent Transportation System", Proceedings of the International MultiConference of Engineers and Computer Scientists, Vol. 2, pp 18-20, 2009</li> </ol>
2008	<ol style="list-style-type: none"> <li>1. AY Deshmukh, AB Bavaskar, PR Bajaj, AG Keskar, "Implementation of complex fuzzy logic modules with VLSI approach", International Journal on Computer Science and Network Security, Vol. 8, pp 172-178, 2008</li> <li>2. ST Gandhe, KT Talele, AG Keskar, "Face Recognition Using Contour Matching", IAENG International Journal of Computer Science", Vol. 35, Issue 2, 2008</li> </ol>
2007	<ol style="list-style-type: none"> <li>1. ST Gandhe, KT Talele, AG Keskar, "Intelligent face recognition techniques: a comparative study", GVIP Journal, Vol. 7, Issue 2, pp 53-60, 2007</li> </ol>
2004	<ol style="list-style-type: none"> <li>1. Preeti Bajaj, Avinash Keskar, "Neuro-Fuzzy Hybrid Intelligent Industrial Control and Monitoring- Exploring Benefits of Neuro Fuzz Controller with Vehicle Health Monitoring", Lecture Notes in Computer Science, Vol. 3215, pp 551-558, 2004</li> </ol>