SCI/ SCIE INDEXED JOURNALS

Year	List of publications
2017	1. Kahu, Samruddhi Y., and **Kishor M. Bhurchandi**. "A Low-Complexity, Sequential Video Compression Scheme Using Frame Differential Directional Filter Bank Decomposition in CIE La* b* Color Space.", *IEEE Access* 5, pp 14914-14929, 2017 2. A. Kumar, S. Yadav, S. Dandu, **Vinay Kumar**, J. Sengupta, S.B. Dhok and S. Kumar "Magnetic Induction-Based Non-Conventional Media Communications: A Review" IEEE Sensor Journal, Vol. 17, Issue 4, pp. 926 – 940, Feb.15, 2017 3. S. Rao, **Vinay Kumar,** S. Kumar, S. Yadav, V. K. Ancha and R. Tripathi "Power Efficient and Coordinated eICIC-CPC-ABS Method for Downlink in LTE-Advanced Heterogeneous Networks" Physical Communication (Elsevier), Volume 24, pp 71– 822017, 2017 4. D. N. Sandeep and **Vinay Kumar** "Review on Clustering, Coverage and Connectivity in Underwater Wireless Sensor Networks: A Communication Techniques Perspective" IEEE Access Journal, Vol. 5, pp. 11176-111999, 2017 5. Sadanand Yadav and **Vinay Kumar** "Optimal Clustering in Underwater Wireless Sensor Networks: Acoustic, EM and FSO Communication Compliant Technique" IEEE Access Journal, Vol. 5, pp. 12761-12776, 2017 6. **Vinay Kumar**, S.B.Dhok, R.Tripathi and S. Tiwari "Cluster Size Optimization with Tunable Elfes Sensing model for Single and Multi-hop WSNs"International Journal of Electronics, Taylor and Francis USA, Vol.104, Issue 2, pp. 312-327. 7. R. Chatterjee and **Vinay Kumar** "Energy Efficient Routing Protocol Via Chain Formation in Gaussian Distributed Wireless Sensor Networks"International Journal of Electronics letter, Taylor and Francis USA, DoI:10.1080/21681724.2017.1279223 8. Sriram Naik and **Vinay Kumar** "Modulation Aware Cluster Size Optimization in Wireless Sensor Networks"International Journal of Electronics, Taylor and Francis USA, Vol.104, Issue 7, pp. 1161- 1177. 9. Kamble, Paresh R., **Avinash G. Keskar, and Kishor M. Bhurchandi**. "Ball tracking in sports: a survey.", *Artificial Intelligence Review,* pp 1-51, 2017 10. Kamble, Vipin Milind, Mayur Rajaram Parate, and Kishor M. Bhurchandi. "No reference noise estimation in digital images using random conditional selection and sampling theory.", *The Visual Computer,* pp 1-17,2017 11. Parate, Mayur Rajaram, **Vishal R. Satpute, and Kishor M. Bhurchandi**. "Global-patch-hybrid template-based arbitrary object tracking with integral channel features." *Applied Intelligence*, pp 1-15, 2017 12. Dushyant Marathe and **K.D. Kulat**, Comment on "a wideband wide-angle ultrathin low profile metamaterial microwave absorber" Microwave and Optical Technology Letters. In Press.2017 13. Aditya Gupta; Neeraj Bokde and K.D. Kulat "Hybrid Leakage Management for Water Network Using PSF Algorithm and Soft Computing Techniques." Water Resources Management, pp 1-19, 2017 14. Neeraj Bokde; **Kishore Kulat**; Marcus W. Beck, and Gualberto Asencio-Cortés, R package imputeTestbench to compare imputations methods for univariate time series. The R Journal. In Press 2017 15. Aditya Gupta; Neeraj Bokde; Dushyant Marathe and Dr**. *K.D. Kulat*** "Optimization techniques for leakage management in urban water distribution networks." *Water Science and Technology: Water Supply*, Vol. 17, Issue 6, pp 1638-1652, 2017 16. Dushyant Marathe and Dr. K.D. Kulat, "A Compact Triple-Band Negative Permittivity Metamaterial for C, X-Band Applications", *International Journal of Antennas and Propagation*, Volume 2017, Article Id 7515264 17. Neeraj Bokde, Gualberto Asencio-Cortés, Francisco Martínez-Álvarez and Kishore Kulat, "Psf: Introduction to r package for pattern sequence based forecasting algorithm", The R Journal, Vol. 9:1, pp 324-333, 2017 18. Alpana R.Dongrea, Akshay P.Patila, Amit, J.Wahurwagha, Ashwin Kothari, Kishor Burchundi, Manish P.Manohare, "Acoustical characteristics of classrooms of tropical climate", Applied

	Acoustics, Vol. 121, pp 46-55, 2017 19. PH Ghare, AG Kothari, "Interference analysis and mitigation techniques in Wireless Body Area Networks", Wireless Personal Communications Journal, Vol. 96, Issue 3, pp 3333–3344, March 2017 20. P Saxena, A Kothari, "Mathematical Modeling of n-Sided Polygon Metamaterial Split Ring Resonators for 5.8 GHz ISM Band Applications", Wireless Personal Communications, Vol. 96, Issue 4, pp 5959–5971, 2017 21. Sumin D. Joseph, S. Manoj, Chetan Waghmare, K. Nandakumar, Ashwin Kothari, "UWB Sensing Antenna, Reconfigurable Transceiver and Reconfigurable Antenna Based Cognitive Radio Test Bed", Wireless Personal Communications, Vol. 96, Issue 3, pp 3435–3462, 2017 22. H. Wang, J. Wang, Guoru Ding, L. Wang, T. A. Tsiftsis and Prabhat Kumar Sharma. "Resource Allocation for Energy Harvesting-Powered D2D Communication Underlaying UAV-Assisted Networks" IEEE Transactions on Green Communications and Networking, October, Vol: PP, Issue 99, October 2017 23. Lokesh Gahane, Prabhat Kumar Sharma, N. Varshney, T. Tsiftsis and P. Kumar, "An Improved Energy Detector for Mobile Cognitive Users over Generalized Fading Channels", IEEE Transactions on Communications, Vol: PP, Issue 99, September, 2017. 24. Lokesh Gahane and Prabhat Kumar Sharma, "Performance of Improved Energy Detector with Cognitive Radio Mobility and Imperfect-CSI", IET Communications, Vol 11, Issue 12, pp. 1857 – 1863, August 2017 25. Prabhat Kumar Sharma and Ankur Bansal, "DF MISO System with Arbitrary Beamforming in Atmospheric Turbulence and Misalignment Errors", Photonic Network Communications, Oct 2017. 26. Santoshkumar Sabat, Prabhat Kumar Sharma and Abhay Gandhi, "Full-Duplex Cooperative Spectrum Sensing with Primary User Activity in Cognitive Radio Networks" to appear in IETE Technical Review (Taylor &Francis), Oct 2017. 27. Prabhat Kumar Sharma, A. Bansal, P. Garg, T.A. Tsiftsis, and R. Barrios, "Relayed FSO Communication with Aperture Averaging Receivers and Misalignment Errors", IET Communications, Vol. 11, Issue 1, pp 45-52, January 2017. 28. Sinha, S., Dogra, V. S., Chinni, B. K. and Rao, N. A, "Frequency Domain Analysis of Multiwavelength Photoacoustic Signal for Differentiating Among Malignant, Benign and Normal Thyroids in an Ex Vivo Study With Human Thyroids", Journal of Ultrasound in Medicine, Vol. 36, pp 2047-2059, 2017 29. Cheggoju, N. & Satpute V.R., "INPAC: INdependent PAss Coding algorithm for robust image data transmission through low SNR channels", Vis Comput (2017). doi:10.1007/s00371-017-1361-1. 30. Neha K Nawandar, Vishal R Satpute, "Energy Efficient Quality Tunable CORDIC for DSP Applications on Battery Operated portable devices", Journal of Circuits systems and Computers, World scientific, Vol. 27, Issue 4, July 2017 31. N. Anveshkumar, Abhay Gandhi, "A Survey on Planar Antenna Designs for Cognitive Radio Applications", Wireless Personal Communications, Springer, Vol . 95, Issue 4, pp. 1-29, Aug 2017 32. T. Venkata Sainath Gupta, A. S. Gandhi, "A simple and efficient data loss recovery technique for SHM applications", Smart Structures and Systems, Techno Press, Vol. 20, Issue: 1, pp. 35-42, July 2017 33. Singh, Sandeep Kumar, Anagha P. Rathkanthiwar, and Abhay S. Gandhi, "New Algorithm for Time and Frequency Synchronization in MIMO-OFDM Systems", Wireless Personal Communications, Springer, Vol. 93, Issue 2, 1-13., March 2017
2016	1. Kamble, Vipin Milind, Pallavi Parlewar, Avinash G. Keskar, Kishor M. Bhurchandi, "Performance evaluation of wavelet, ridgelet, curvelet and contourlet transforms based techniques for digital image denoising." *Artificial Intelligence Review, Vol.* 45, Issue 4, pp 509-533, April 2016 2. Patil, Hemprasad Y., Ashwin G. Kothari, and Kishor M. Bhurchandi, "Expression invariant face recognition using local binary patterns and contourlet transform." *Optik-International Journal for Light and Electron Optics, Vol.* 127, Issue 5, pp 2670-2678, March 2016 3. P Saxena, A Kothari, "Ant Lion Optimization algorithm to control side lobe level and null depths in linear antenna arrays", AEU-International Journal of Electronics and Communications, vol. 70, Issue 9, pp. 1339-1349, 2016 4. P Saxena, A Kothari, "Optimal Pattern Synthesis of Linear Antenna Array Using Grey Wolf

	Optimization Algorithm", International Journal of Antennas and Propagation, Vol.2016, Article ID 1205970, March 2016 5. P Saxena, A Kothari, "Linear antenna array optimization using flower pollination algorithm", SpringerPlus, vol. 5(1), 306, 2016 Volume 1 / 2012 - Volume 5 / 2016 6. VB Bora, AG Kothari, AG Keskar;Robust Automatic Pectoral Muscle Segmentation from Mammograms Using Texture Gradient and Euclidean Distance Regression.;Journal of Digital Imaging, Vol. 29, pp. 115–125 7. Prabhat Kumar Sharma, "Average symbol error rate for M-ary quadrature amplitude modulation in generalized atmospheric turbulence and misalignment errors," Optical Engineering, Vol. 55, Issue 11, pp 111615, October 2016 8. Prabhat Kumar Sharma, and Parul Garg "Achieving High Data Rates through Full Duplex Relaying in Multicell Environments" Transactions on Emerging Telecommunication Technologies, Volume 27, Issue 1, pages 111-121, January 2016. 9. Naman Joshi and Prabhat Kumar Sharma, "Performance of Wireless Optical Communication in S-Distributed Turbulence" IEEE Photonics Technology Letters", vol. 28, Issue 2, January 2016. 10. Sinha, S., Rao, N. A, Chinni, B. K. Dogra, V. S., "Evaluation of Frequency Domain Analysis of Multiwavelength Photoacoustic Signal for Differentiating Malignant From Benign and Normal Prostates", Ex Vivo Study With Human Prostates, Journal of Ultrasound in Medicine, Vol. 35, pp 2165-2177, 2016 11. N. Kothapalli, P. Sharma and Vinay Kumar "Performance of a Bi-Directional Relaying System with One Full Duplex Relay" International Journal of Electronics and communication Engineering (Elsevier), Vol. 70 Issue 10, pp. 1426-1432, 2016 12. N. Anvesh Kumar, A. S. Gandhi, "A Compact Novel Three-Port Integrated Wide and Narrow Band Antennas System for Cognitive Radio Applications", International Journal of Antennas and Propagation, Hindawi, Vol. 2016, Sep 2016
2015	1. Patil, Hemprasad, Ashwin Kothari, and Kishor Bhurchandi. "Expression invariant face recognition using semidecimated DWT, Patch-LDSMT, feature and score level fusion." *Applied Intelligence, Vol.* 44, Issue 4, pp 913-930, 2015 2. Patil, Hemprasad, Ashwin Kothari, and Kishor Bhurchandi. "3-D face recognition: features, databases, algorithms and challenges." *Artificial Intelligence Review* Vol. 44, Issue 3, pp 393-441, October 2015 3. Kamble, Vipin, and K. M. Bhurchandi. "No-reference image quality assessment algorithms: A survey." *Optik-International Journal for Light and Electron Optics* Vol. 126, Issue 11-12, pp 1090-1097, June 2015 4. Satpute, Vishal R., et al. "Fast and Memory Efficient 3D-DWT Based Video Encoding Techniques with EZW Based Video Compression Mechanism." Transactions on Engineering Technologies. Springer Netherlands, pp 397-412, 2015 5. H Patil, A Kothari, K Bhurchandi, "3-D face recognition: features, databases, algorithms and challenges", Artificial Intelligence Review Volume 44, Issue 3, pp 393–441, October 2015 6. H Patil, A Kothari, K Bhurchandi, "Eye-Strip based Person Identification based on Non-Subsampled Contourlet Transform", International Journal of Computer Applications. Volume 121, Issue 12, pp 14-20, July 2015 7. KS Tiwari, AG Kothari, "Design and implementation of Rough Set Co-Processor on FPGA", International Journal of Innovative Computing Information and Control, Vol.11, Issue 2, April 2015 8. RG Sutar, AG Kothari, "Intelligent electrocardiogram pattern classification and recognition using low-cost cardio-care system", IET Science, Measurement & Technology, Vol. 9, Issue 1, pp 134-143, February 2015 9. Prabhat Kumar Sharma, Ankur Bansal and Parul Garg, "Relay Assisted Bi-directional Communication in Generalized Turbulence Fading" IEEE Journal of Lightwave Technology, Vol. 33, Issue 1, pp. 133-139, January 2015.
2014	1. Mohammad Farukh Hashmi, Aaditya Hambarde, Vijay Anand, Avinash Keskar, "Passive Detection of Copy-Move Forgery using Wavelet Transforms and SIFT Features.", Journal of Information

	Assurance and Security, Volume 9, Issue 5, October 2014 2. Mohammad Farukh Hashmi, Avinash G Keskar," Computer-vision based visual inspection and crack detection of railroad tracks", Recent Advances in Electrical and Computer Engineering, ISBN, Pages 978-1 3. Prabhat Kumar Sharma, and Parul Garg "Bi-directional Decode-XOR-Forward Relaying over M-Distributed Free Space Optical Links" IEEE Photonics Technology Letters, Vol.26, Issue 19, pp 1916-1919, October 1, 2014. 4. Prabhat Kumar Sharma, and Parul Garg, "Coded Cooperation: Generalised Outage Analysis ", IET Communications, Vol. 8, Issue 6, pp. 972-979, April 2014. 5. Prabhat Kumar Sharma, and Parul Garg "Performance Analysis of Full Duplex Decode and Forward Cooperative Relaying over Nakagami-m Fading Channels", Transactions on Emerging Telecommunication Technologies, Vol. 25, Issue 9, pp. 905-913, Sept. 2014.
2013	1. Suryawanshi, H. M., U.V. Patil, M.M. Renge, K.D. Kulat "Modified Combined DTC and FOC based Control for Medium Voltage Induction Motor Drive in SVM Controlled DCMLI." EPE Journal, Vol. 23, Issue 4 pp 23-32, 2013 2. Thakare, Rajesh D., and Kishore D. Kulat. "UWB Interference Probability on Wi-MAX Receiver (Case Study of Coexistence Issue)." IETE Journal of Education, Vol. 54, Issue 2 pp 100-107, 2013
2012	1. PH Ghare, AG Kothari, "Addressing Scalability issue of medical body area networks with modified IEEE 802.15.4", Journal of Medical Imaging and Health Informatics, vol.2, pp-1-5, 2012
2011	1. Ingole, Prashant Vitthalrao, and Kishore D. Kulat. "Morphological Segmentation Based Fuzzy Features for Retrieval of Brain MRI." IETE Journal of Research, Vol. 57, Issue 4, pp 331-345, 2011 2. Kishore D. Kulat, "MATLAB simulation of a wireless communication system using OFDM", IETE Technical review, Vol. 23, Issue 3, pp 187-198, 2011
2010	1. AG Kothari, AG Keskar, "Uann based pattern classifier using rough set approach.", International Journal of Pattern Recognition and Artificial Intelligence, Vol. 24, Issue 07, pp 1091-1109, 2010
2006	A. S. Gandhi, A. M. Dighe, "Performance and Error Analysis of the Algorithms for Analog to Multi-Valued Digital Conversion", IETE Journal of Research, Taylor and Francis, Vol. 52, No. 1, pp.53-64, Jan-Feb 2006
2003	A. S. Gandhi, A. M. Dighe, "Algorithms for Analog to Multi-Valued Digital Conversion", IETE Journal of Research, Taylor and Francis, Vol. 49, No. 1, pp.13-25., Jan-Feb 2003