

## Publications

### Book Chapters

1. Ruchika Sinhal, K. R. Singh, M. M. Raghuwanshi, "An Overview of Remote Photoplethysmography Methods for vital Sign Monitoring," AISC (advances in Intelligent Systems and Computing ) Springer Book Series, Springer , Singapore :Computer Vision and Machine Intelligence in Medical Image Analysis, pp: 21-31, 29 August 2019 Print ISBN 978-981-13-8797-5, Online ISBN 978-981-13-8798-2
2. Roshni Khedgaonkar, Kavita R. Singh, Mukesh M. Raghuwanshi and Pravin M. Sonsare, Surgical and Non-Surgical Face Recognition are using Patch-Based Approach," Advances in Computer Science, AkiNik Publications, pp: 49-77, ISBN: 978-93-5335-487-9, 2019.
3. K. R. Singh, M. M. Raghuwanshi, M. A. Zaveri and James Peters "The Applications of Rough Set Theory and Near Set Theory to Face Recognition Problem", **IGI Global** "*Advanced Research on Hybrid Intelligent Techniques and Applications*, pp-378-413, 2016.
4. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, A Rough Neurocomputing Approach for Illumination Invariant Face Recognition System, **Springer**, *Transactions on Rough Sets XVIII*, pp:34-51, 2014.

### SCI Journal Publications

1. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, Robust Face Identification under Uncontrolled Environment with LGFSV Face Representation Technique, **Springer** *Central European Journal of Computer Science*, vol.3, no.3, pp.129-148, 2013 (**IF:0.2**)
2. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, Rough Set Based Pose Invariant Face Recognition with Mug Shot Images, **IOS Press** *Journal of Information and Fuzzy System*, DOI. 10.3233/IFS-120708 (**IF:0.936**)
3. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, Rough Membership Function based Illumination Classifier for Illumination Invariant Face Recognition, **Elsevier** *Applied Soft Computing*, vol. 13, no. 10, Oct 2013, pp. 4105-4117 (**IF: 2.970**)
4. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, Analysis of Feature based Face Recognition Algorithms under Varying Poses, **IOS Press** *International Journal of Knowledge-based and Intelligent Engineering Systems*, vol:18, pp: 61–71, 2014.

### Scopus Journal Publications

1. P. V. Barekar, R. V. Ambulkar, K. R. Singh, Lalit Damahe, S. D. Kamble, Shashank Gotarkar, "EEG Signal Classification for Alcoholic Person using Neural Network," *Journal of Advanced Research in Dynamical and Control System*, Vol:11, Issue: 8 pp: 3112-3124, 2020
2. Punit Fulzele, ZahirQuazi, Anjali Sirsam, Smrutikhobargade, Yogita Chitriv, Kavita Singh, Sonali Choudhary, Methods for Early Detection of Post-Operative Infection A Review, *Journal of Advanced Research in Dynamical and Control Systems*, Vol. No. 11, Issue No.8, pp: 3155-3167, 2019
3. Ruchi Sinhal, K. R. Singh, M. M. Raghuwanshi," Heart Rate Measurement Based on Color Signal Extraction," *International Journal of Innovative Technology and Exploring Engineering* (accepted), ISSN 2278-3075 (online), 2019
4. R. S. Khedgaonkar, K. R. Singh, M. M. Raghuwanshi, "Face Recognition using Probabilistic Model for Locally Changed Face," *International Journal of Innovative Technology and Exploring Engineering*, Volume-8 Issue-9, July 2019 ISSN 2278-3075 (online)

5. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, Illumination and Pose Invariant Face Recognition: A Technical Review, *International Journal of Computer Information Systems and Industrial Management Applications (IJCISIM)*, vol.2, pp. 29-38, 2010

### Journal Publications

1. Pooja Dubey, K. R Singh, Roshni Khedgaonkar, M. M. Raghuwanshi, "Designing Face Recognition Model under Illumination Variation," *IJREAM*, vol-05, No-01, April 2019.
2. Ahefaz Pothiyawala, Kavita R. Singh, "A Hybrid Approach for Emotion Extraction," *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Volume 5, Issue IV, pp: 219-231, April 2017
3. Divya D Patel, Kavita R. Singh and Arun Yadav, "Genome Subsequence Searching using MapReduce and Hadoop," *International Journal of Scientific Research in Science, Engineering and Technology*, Volume 3 , Issue 2, pp:642-647, April 2017
4. Rasika Kachore, Kavita Singh, "Lung Nodule Detection," *International Journal of Scientific Research in Science, Engineering and Technology*, Volume 3 , Issue 2, pp:642-647, April 2017
5. Pooja G Mate, Kavita R Singh and Anand Khobragade, "Optimal Feature Selection from Remote Sensing images for Agricultural Acreage Estimation," *International Journal of Engineering Sciences and Research Technology*, Vol.5, No.4, pp. 570-575, April 2016
6. Tushar M Chaure and Kavita R Singh, "Frequent Itemset Mining for Distributed Systems using Hadoop," *International Journal of Innovative Research in Computer and Communication Engineering*, Vol:4, No. 4, April 2016.
7. Pravin H Channe and K R Singh, "Review on: Brain Tumor Detection Techniques from MRI images and rough set theory," *International Journal of Computing and Technology* , (Accepted)
8. Abhinav S Raut and Kavita R Singh, "Anomaly Based Intrusion Detection A Review," *ACEEE International Journal of Network Security*, vol: 5, April 2014
9. Kruti Sharma and Kavita Singh, "Online Data Backup and Disaster Recovery Techniques in cloud computing: A Review," *IJET*, vol:2, no:5 pp: 249-254, 12 Nov 2012
10. K. R. Singh, Devi Nair, Mrunalini Mohod, Rajeev Ranjan, Suryansh Anand , "Pose Invariant Face Recognition using 2D log Polar Gabor Transform and Neural Network," *International journal of Computing*, vol:2, no: 1, pp: 258-268, Jan 9 2012
11. Saroj Dhoundiyal, Shilpa Themdeo, Niraj Waghmare, Kailash Dodani and K. R. Singh, "Face Detection From Pose Varying Facial Images," *International Journal of Advances in Engineering & Technology*, vol: 3, Issue: 2, pp: 286-292, May 2012.
12. Kavita R Singh, Shivanshu Singh , "Near Set An Approach Ahead To Rough Set: An Overview," *International Journal of Advances in Engineering & Technology*, Vol. 1, Issue 5, pp. 248-253 , Nov 2011.
13. K. R. Singh, Roshni S Khedgaonkar, Swati P Gawande, "A New Approach to Local Plastic Surgery Face Recognition Using Near Sets," *International Journal of Engineering Science and Technology (IJEST)*, pp: 71-75, Feb 2011
14. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, "Improving the Intra Class Distance using RBSQI Technique for Facial Images with Illumination Variations," *Journal of Emerging Trends in Computing and Information Sciences*, vol. 2, no.11, pp. 28-33, Feb 2011
15. K. R. Singh, and M.M.Raghuwanshi; "Approach to Enhance Performance of Face Recognition System Using Rough Set", *Digital Technology Journal*, Vol.2, no.1, 2009.

## Conference Publications

1. Roshni Khedgaonkar , M. M. Raghuwanshi, K. R. Singh , “Patch-based Face Recognition under Plastic Surgery,” ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications pp. 364-368
2. Ruchi Sinhal, K. R. Singh, M. M. Raghuwanshi, “Estimating vital signs through non-contact video-based approaches: A survey,” International Conference on Recent Innovations in Signal Processing and Embedded Systems, RISE 20172018-January, pp. 139-141
3. Ahefaz Pothiyawala, Kavita R. Singh, “Emotion Extraction from Text,” in proceedings of IEEE sponsored International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS), 17-18 March 2017
4. Divya Patel and K. R Singh, “*Genome Sequencing using MapReduce and Hadoop – A Technical Review*,” in proceedings of IEEE Int Conference on Innovative Mechanisma for Industry Applications (ICIMIA-2017), 21-23 Feb 2017
5. Ankita Gakre, Kavita R Singh and James Peters, “Wavelet-based Tolerance Near Set Approach in Classifying Hand Images: A Review,” IEEE sponsored world conference on Futuristic Trends in Research and Innovation for Social Welfare.
6. Shirish Narnaware, Kavita R Singh and Anand Khobragade, “Big-Data Analysis using R and Hadoop: A Technical Review, IEEE sponsored 3<sup>rd</sup> International Conference on Innovations in Information, Embedded and Communication System.
7. Tushar M Chaure and Kavita R Singh, “Frequent Itemset Mining Techniques- A technical Review, IEEE sponsored world conference on Futuristic Trends in Research and Innovation for Social Welfare.
8. Pooja G Mate, Kavita R Singh and Anand Khobragade, “Feature Extraction Algorithm for Estimation of Agriculture Acreage from Remote sensing images,” IEEE sponsored world conference on Futuristic Trends in Research and Innovation for Social Welfare, 29 Feb 2016.
9. Swapnil Raut and Kavita R. Singh, “Image inpainting Algorithms : A Review IEEE ICIIECS’15 19 and 20 March 2015, Coimbatore, Talim Nadu,India.
10. Akshara and Kavita R. Singh, “A Technical Review on Text Recognition from Images,” **IEEE** Sponsored 9th International Conference on Intelligent Systems and Control (ISCO) 2015, (Accepted)
11. Pratik Madhukar Manwatkar and Kavita R. Singh, “A Technical Review on Text Recognition from Images,” **IEEE** Sponsored 9th International Conference on Intelligent Systems and Control (ISCO) 2015, (Accepted)
12. Pravin H Channe and K R Singh, “ Identification and classification of brain tumor in MRI images using Rough Set theory,” in *Proceedings of International conference on Empowering Emerging Trends in Computer, Information Technology and Bio-Informatics*, 19 April 2014.
13. Abhinav S Raut and Kavita R Singh, “ Feature Selection for Anomaly Based Intrusion Detection using Rough Set theory,” in *Proceedings of International conference on industrial Automation and computing (ICIAC-2014)*, 13 April 2014.
14. K R Singh, M. M. Raghuwanshi and R. S. Khedgaokar, “ A New multilevel Access Control System based on Face Recognition System and Graphical Password,” in *Proceedings of first International Conference on Recent Trends and Innovation in Engineering and Technology*, pp: 1-5, 20-21 Dec 2013.
15. Kruti Sharma and K R Singh, “Seed Block Algorithm: A Remote Smart Data Back-up Technique for Cloud Computing,” in *proceedings of IEEE International Conference on Communication Systems and Network Technologies*, pp: 376-380, April 2013

16. Kruti Sharma and Kavita Singh, "Double Recovery Block Algorithm: A Remote Smart Data Backup Technique for Cloud Computing," in *Proceedings of IEEE International Conference on Communication and Signal Processing*, pp: 251-254, 3-5 April 2013
17. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, "Improving Facial Recognition with Heterogeneous Set of Features," *16th International Conference on Image Processing, Computer Vision, & Pattern Recognition*, pp: 1175-1179, July 16-19, 2012.
18. Singh Kavita, Zaveri Mukesh, Raghuwanshi Mukesh, "A Rough Neurocomputing Approach for Illumination Invariant Face Recognition System," in *proceedings of the 7th international conference on Rough Sets and Knowledge Technology, Lecture Notes in Computer Science, Springer Berlin Heidelberg*, Volume 7414, pp 91-100, 2012.
19. R S Khedgaokar, K R Singh and S P Gawande, " Identifying Resemblance in Local Plastic Surgical Faces Using Near Sets for Face Recognition " *in proceedings of IEEE Communication Systems and Network Technologies (CSNT)*, pp: 589 - 592 ,3-5 June 2011.
20. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, "Recognizing Faces under Varying Poses with Three States Hidden Markov Model," *IEEE CSAE 2012*, Vol.2, pp. 359- 363, July 2012.
21. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, "A robust illumination classifier using Rough Sets," *IEEE CSAE 2011*, pp: 540-544, 10-12 June 2011.
22. Ajinkya Padole, Harish Shegokar, Kavish Shivhare, Rohit Ramteke, K. R. Singh; "A Relational Model To Surmount Challenges For Project Management"; *International Conference On Computing; Institute for Defense Studies and Analyses*, New Delhi; ISBN NO-978-81-920305; Page no 68-69; vol 3; 27<sup>th</sup> - 28<sup>th</sup> December, 2010
23. K. R. Singh, M. A. Zaveri and M. M. Raghuwanshi, "Extraction of Pose Invariant Feature," *International Conference on Information and Communication Technologies (ICT 2010), Lecture Notes in Computer Science (LNCS)*, vol: 101, No: 3: Springer- Verlag Berlin Heidelberg, pp: 535-539, 2010.
24. K. R. Singh and M.M. Raghuwanshi, "Face Recognition with Rough-Neural Network: A Rule Based Approach", *International workshop on Machine Intelligence Research*, 24<sup>th</sup> Jan 2009. pp 123-129.

#### National Conference (5)

1. Pratik Madhukar and K R Singh, " Text Detection and Recognition System," National Conference on Advances in Engineering, Technology, and Applied Sciences, pp: 6-6, 21-22 March 2014
2. Swapnil G Raut and K R Singh, " Image In painting," National Conference on Advances in Engineering, Technology, and Applied Sciences, pp: 7-7 21-22 March 2014
3. Gargi Chute, Ketki Hardas, sonal Dhamecha, Devika Maini and Kavita R Singh, "Classification of Regions in a Satellite Image", National Conference on Advances in Engineering, Technology, and Applied Sciences, pp: 20-20, 21-22 March 2014
4. K. R. Singh, N.K.Shergill, and S. Meshare; "Pose Invariant Face recognition through SCM", NCOAT-NIRMITI-2010, PIET, Nagpur, 9-10 Feb 2010.
5. K. R. Singh, P. Khanna, H.Bhatia, G.Dhoble, and A.Jain, "A survey on illumination invariant approaches", NACCTC-2010, Jodhpur.