

Publication (Journals):

1. Vibhav Prakash Singh, and Rajeev Srivastava, "Improved CBIR System Using Fusion of Fast Features with Varying Weighted Similarity Measure and Random Forest Classifier", *Multimedia Tools and Applications*, Vol.77, pp. 11435-14460, 2017, DOI 10.1007/s11042-017-5036-8, Springer (SCI-2.1).
2. Vibhav Prakash Singh, and Rajeev Srivastava, Automated and effective content-based mammogram retrieval using wavelet based CS-LBP feature and self-organizing map. *Biocybernetics and Biomedical Engineering*. Vol. (38), Issue (1), pp.90-105, 2018. DOI: [dx.doi.org/10.1016/j.bbe.2017.09.003](https://doi.org/10.1016/j.bbe.2017.09.003), Elsevier (SCI-2.1)
3. Vibhav Prakash Singh, Rajeev Srivastava, Yadunath Patak and Shailendra Tiwari "Content-Based Image Retrieval Based on Supervised Learning Framework StatisticalBased Moments", *Modern Physics Letter B*, World scientific Journal. DOI: <https://doi.org/10.1142/S0217984919502130> (SCI-0.97)
4. Vibhav Prakash Singh, Subodh Srivastava, and Rajeev Srivastava, "An Efficient and Automated Content Based Image Retrieval for Digital Mammography", *Journal of X-Ray Science and Technology* 26 (2018), pp. 29–49, DOI:10.3233/XST-17306 (SCI-1.67)
5. Vibhav Prakash Singh, Subodh Srivastava, and Rajeev Srivastava, "Effective Mammogram Classification Based on Center Symmetric-LBP features in Wavelet Domain Using Random Forest Classifier", *Technology and Health Care*, Vol. 25, (2017) 709–727, DOI: 10.3233/THC-170851 (SCI-0.79).
6. Vibhav Prakash Singh, Ashim Gupta, and Rajeev Srivastava. "Fast and effective image retrieval using colour and texture features with self-organising map." *International Journal of Computational Systems Engineering* Vol. 3, no. 3 (2017): 133-143., Inderscience, UK, DOI: <https://doi.org/10.1504/IJCSYSE.2017.086738>.
7. Vibhav Prakash Singh and Rajeev Srivastava, "Effective Image Retrieval Based on Hybrid Features with Weighted Similarity Measure and Query Image Classification, *Int. J. Computational Vision and Robotics*, Vol. 8, No. 2, 2018, pp.91-121, Inderscience (Scopus, ACM, DBLP Index), DOI: <https://doi.org/10.1504/IJCVR.2018.091979>.
8. Vibhav Prakash Singh, and Rajeev Srivastava, "Content-Based Mammogram Retrieval Using Wavelet based Complete-LBP and K-means Clustering for the Diagnosis of Breast Cancer", *International Journal of Hybrid Intelligent System*, Vol. 14, 2017, pp.31-39, IOS Press, DOI: 10.3233/HIS-170240 (Scopus, ACM, DBLP Index)
9. SP Singh, VP Singh, and AK Mehta , "Differential Evolution Using Homeostasis Adaption Based Mutation Operator and its Application for Software Cost Estimation", *Journal of King Saud University-Computer and Information System*, 2018, (Scopus Index-Elsevier), DOI: <https://doi.org/10.1016/j.jksuci.2018.05.009>
10. Vibhav Prakash Singh, Subodh Srivastava, and Rajeev Srivastava. "An Efficient Image Retrieval Based on Fusion of Fast Features and Query Image Classification." *International Journal of Rough Sets and Data Analysis (IJRSDA)* 4.1 (2017): 19-37 (ACM, DBLP Index).
11. Vibhav Prakash Singh, Ayush Srivastava, Devang Kulshreshtha, Arpit Chaudhary, and Rajeev Srivastava. "Mammogram Classification Using Selected GLCM Features and Random Forest Classifier." *International Journal of Computer Science and Information Security* 14, no. 6 (2016): 82.(ESCI)

12. Yashankit, Vibhav Prakash Singh, and Rajeev Srivastava "Comparative Analysis of Distance Metrics for Designing an Effective Content-Based Image Retrieval System Using Colour and Texture Features", International Journal of Image, Graphics and Signal Processing, 9 (12), 58-64, 2018. DOI: 10.5815/ijigsp
13. Chakrapani, Sumit Raj, and Vibhav Prakash Singh, "Detection of Chronic Kidney Disease Using Artificial Neural Network", International Journal of Applied Engineering Research, Volume 14, pp. 145-149, Number 10, 2019 (UGC Listed, Scopus (2017 index)).
14. Shashank Tripathi and Vibhav Prakash Singh. Integrated Networks: A Survey. Current Trends in Information Technology. 2019; 9(1), pp. 22–29
15. Singh, Vibhav Prakash, Singh Gaurav Arvind, and Arindam G. Mahapatra. "Hybrid Correlation based Gene Selection for Accurate Cancer Classification of Gene Expression Data." International Journal of Computer Applications 43, no. 14 (2012): 13-18.
16. Meena, Yogesh Kumar, Singh, Vibhav Prakash "Text documents clustering using genetic algorithm and discrete differential evolution." International Journal of Computer Applications 43, no. 1 (2012): 16-19.
17. Kumar, Neeraj, Vibhav Prakash Singh, Himanshu Mishra, and Atul Barsaiyan. "Modified Kerberos Model for Sustaining the Integrity Privacy & Authentication of Critical Data in Cloud Computing", International Journal of Scientific & Engineering Research, Volume-9, Issues-6, 2014.

Books/Book Chapters:

1. Vibhav Prakash Singh, Rajeev Srivastava, "Content Based Image Classification Using Colour and Texture Features with Random Forest Classifier", International Conference on Computer, Communication, and Computational Sciences (IC4S), August 12-13, 2016 Published by Springer book series on Advances in Intelligent Systems and Computing.
2. Dhurba Jyoti Kalita, Vibhav Prakash Singh, Vinay Kumar, "A Survey on SVM Hyper Parameters Optimization Techniques", Presented in SCI-2019, held on 8-9 march, 2019 at Bhopal, proceeding will be published by Springer book series on Lecture Notes in Networks and Systems.
3. Dhurba Jyoti Kalita, Vibhav Prakash Singh, Vinay Kumar, "SVM Hyper Parameters Optimization using Multi- PSO for Intrusion Detection", Accepted in SCI-2019 to be held on 8-9 march, 2019 at Bhopal, proceeding will be published by Springer book series on Lecture Notes in Networks and Systems.
4. Vibhav Prakash Singh, "Data Mining Approaches for Classifying Gene Expression Data of Cancer", ISBN Number: 978-3-659-39144-6, LAP LAMBERT Publishing Saarbrucken Deutschland, Germany.
5. Vibhav Prakash Singh, and Navneet Solanki, "IT Infrastructure & Its Management", ISBN Number: 978-93-81126-52-3, First Edition 2012, at Nandani Prakashan Pvt. Ltd., New Delhi.

Conferences:

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2. Vibhav Prakash Singh, and Rajeev Srivastava. "Design & performance analysis of content based image retrieval system based on image classification using various feature sets." In Futuristic

Trends on Computational Analysis and Knowledge Management (ABLAZE), 2015 International Conference on, pp. 664-670. IEEE, 25-27, Feb-2015.

3. Vibhav Prakash Singh, Shivoam Malhotra, and Rajeev Srivastava. "Combining hybrid information descriptors and DCT for improved CBIR performance." In Control, Computing, Communication and Materials (ICCCCM), 2016 International Conference on, pp. 1-5. IEEE, 21-22, Oct-2016.
4. Vibhav Prakash Singh and Rajeev Srivastava, Improved image retrieval using colorinvariant moments, 2017 3rd International Conference on Computational Intelligence & Communication Technology (CICT), Pages: 1 – 6. IEEE, 9-10, Feb-2017.
5. Vibhav Prakash Singh*; Devang Kulshreshtha*; Ayush Srivastava; Rajeev Srivastava, Content-based mammogram retrieval using k-means clustering and local binary pattern, 2017 2nd International Conference on Image, Vision and Computing (ICIVC), Pages: 634 – 638, Chedgu, China, IEEE, 2-4, June-2017.
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7. Ayush Shrivastava, Arpit Chaudhary, Devang Kulshreshtha, Vibhav Prakash Singh, and Rajeev Srivastava, "Automated digital mammogram segmentation using Dispersed Region Growing and Sliding Window Algorithm", 2017 2nd International Conference on Image, Vision and Computing (ICIVC), Year: 2017, Pages: 366 – 370, China, IEEE, 2-4 June-2017.
8. Prateek Prince Thakur, Devang Kulshreshtha, Vibhav Prakash Singh, and Rajeev Srivastava, "Convolutional Neural Networks for 3d Brain MRI Classification", in International Conference on Recent Advance in Engineering and Technology (ICRET18), 7th April`2018 Bangkok.
9. Arpit Chaudhary, Prince Thakur, Vibhav Prakash Singh and Rajeev Srivastava, "An Efficient Approach for Image Retrieval Based on Xor Distance Using Binary Hash Codes", in International Conference on Recent Advance in Engineering and Technology, 7th April -2018 Bangkok.
10. Vibhav Prakash Singh, Rajeev Srivastava, and Neeraj Kumar "Multistage Ensemble Classification for Gene Expression Data of Cancer Using Correlated Informative Features", International Conference on Communications, (ICRCWIP 2015), POORNIMA UNIVERSITY- Jaipur, 16-17 Jan-2015.
11. Vibhav Prakash Singh and Ashu Sharma, Paper published & presented in National Conference of Artificial Intelligence & Agent Application, IIT-BHU, Varanasi on "Correlation Based Gene Selection for Accurate Cancer Classification of Gene Expression Data", held on 9-10th Dec-2011.
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14. Vibhav Prakash Singh, Paper published & presented in National Conference on Trends & Advancement in Computer Science & Engineering at B.S.A College of Engineering & Technology Mathura on "String Matching based correlated feature selection and classification of gene expression data of cancer ", held on dated 23 March 2013.
15. Kriti Singh, Rajeev Srivastava, Vibhav Prakash Singh "An Introductory survey on Content Based Image Retrieval", National Conference on Present Scenario and Future Trends in Biomedical

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- 16.** Vibhav Prakash Singh, Published and presented poster paper on “Computer Added Diagnosis of Breast Cancer Assisted by Content Based Mammogram Retrieval” at IIT (BHU), Varanasi, April 2-3, 2016.
- 17.** Pradeep Koli and Vibhav Prakash Singh, Paper accepted on “String Matching based implementation of web crawler”, in the 2011-International Conference on Computer Communication and Management, Sydney, Australia.