

## Research Contributions at a Glance:

|   |  |                                     |                                |
|---|--|-------------------------------------|--------------------------------|
| Sponsored Projects                          | <b>1</b>   |                                     |                                |
| Patents                                     | <b>2</b>   |                                     |                                |
| Published Journals                          | SCI/SCIE/ESCI/Scopus: <b>42</b>                                    | ACM/DBLP/Other Indexed: <b>6</b>    | Total No. <b>48</b>            |
| Books and Chapters                          | Edited Books: <b>3</b>   | Book Chapters: <b>4</b>             | Total: <b>7</b>                |
| Conferences                                 | International: <b>36</b>   | National: <b>5</b>                  | Total: <b>41</b>               |
| Ph.D. Thesis Supervised                     | Awarded: <b>1</b> , Thesis Submitted: <b>1</b> , Ongoing: <b>2</b> |                                     |                                |
| M.Tech. Thesis Supervised                   | Supervised: <b>20</b> , Ongoing: <b>3</b>                          |                                     |                                |
| B.Tech. Project Supervised                  | Supervised: <b>22 Groups</b>                                       |                                     |                                |
| Workshop/FDP Organized                      | <b>4</b> (Role-Convener)   |                                     |                                |
| Outreach Activities<br>(Total : <b>44</b> ) | Invited Talk/Expert Talk<br>(Workshop/FDP/Training)                | Session Chaired<br>(In Conferences) | Participated<br>(Workshop/FDP) |
|   | <b>15</b>  | <b>18</b>                           | <b>11</b>                      |

### Completed Research Grants/ Projects:

| SN | Details   |
|----|---|
| 1. | <p>Content-Based Image Retrieval System Assisted by Mammogram Classification for the Diagnosis of Breast Cancer</p> <ul style="list-style-type: none"> <li><b>Agency:</b> Collaborative Research Scheme under the Proposal of National Project Implementation Unit-New Delhi, Financed by Word Bank.</li> <li><b>Project Grant:</b> Rs. 7.30 Lakhs</li> <li><b>Role:</b> PI/CO-PI</li> <li><b>Grant Year:</b> June 2019, <b>Completed Year:</b> September 2021</li> </ul> |

### Patent:

| SN | Details  |
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| 1. | Indian Patent on "Methods for Designing Dynamic framework for Tuning of SVM Hyper Parameters Based on MFO and Knowledge-Based Search", No: 202031014705, (Patent Published; Also, First Examination Report (FER) Response Submitted) |
| 2. | Patent Published on "A Framework for Reliability & Performance Analysis of Safety-Critical System using Stochastic Modeling," 202031014381, Published, 05/2020   |

### Published Journals: (SCI/SCIE/ESCI/Scopus, Total: 48)

| SN | Year | Details   |
|----|------|---|
| 1. | 2026 | Jitendra Mehta, Sayani Das, <b>Vibhav Prakash Singh</b> , Abhishek Tiwari, "Computational and statistical insights for leveraging biomarker-driven machine learning models in predicting COVID-19 patient outcomes", <i>Health Information Science and Systems, Springer</i> , Accepted in Jan 2026, (IF-3.4) <a href="https://10.1007/s13755-025-00421-y">https://10.1007/s13755-025-00421-y</a> |
| 2. | 2025 | Ankur Prakash, and <b>Vibhav Prakash Singh</b> , "AI in Radiology: A Comprehensive Survey on Content-Based Medical Image Analysis for Lung Diseases", <i>Network Modeling Analysis in Health Informatics and Bioinformatics, Springer</i> , Vol. 14, pp. 173, Nov 2025. (IF-2.0) <a href="https://doi.org/10.1007/s13721-025-00661-8">https://doi.org/10.1007/s13721-025-00661-8</a>              |
| 3. | 2025 | Ashish Ranjan, Abhay Singh Rawat, <b>Vibhav Prakash Singh</b> , and Anil Kumar Singh. "Identification of Neuro-semantic Representation of Concrete Nouns Using Cascaded Feature Selection." <i>SN Computer Science, Springer</i> , Vol. 6, no. 8 pp. 986, Nov 2025. <a href="https://doi.org/10.1007/s42979-025-04556-3">https://doi.org/10.1007/s42979-025-04556-3</a> (Scopus)                  |
| 4. | 2025 | Ankur Prakash, and <b>Vibhav Prakash Singh</b> . "Content-based X-ray Image Retrieval Using Fusion of Local Neighboring Patterns and Deep Features for Lung Disease Detection," <i>Radiological Physics and Technology, Springer</i> , pp. 1-20., Published: July 2025, (IF-1.5), <a href="https://doi.org/10.1007/s12194-025-00932-z">https://doi.org/10.1007/s12194-025-00932-z</a>             |
| 5. | 2025 | Ashima Tyagi, <b>Vibhav Prakash Singh</b> , and Manoj Madhava Gore. "Spatial and frequency  |

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|     |      | domain-based feature fusion for accurate detection of schizophrenia using AI-driven approaches." <i>Health Information Science and Systems</i> , Springer, Vol. 13, no. 1, pp.32, April 2025. (IF-3.4), <a href="https://doi.org/10.1007/s13755-025-00345-7">https://doi.org/10.1007/s13755-025-00345-7</a>   |
| 6.  | 2025 | Imtiyaz Ahmad, <b>Vibhav Prakash Singh</b> , and Manoj Madhava Gore. "Detection of Diabetic Retinopathy Using Discrete Wavelet-Based Center-Symmetric Local Binary Pattern and Statistical Features." <i>Journal of Imaging Informatics in Medicine</i> , Springer, Vol. 38, no. 2, pp.1184-1211, April 2025. (IF-3.1), <a href="https://doi.org/10.1007/s10278-024-01243-2">https://doi.org/10.1007/s10278-024-01243-2</a>                     |
| 7.  | 2025 | Imtiyaz Ahmad, <b>Vibhav Prakash Singh</b> , and Manoj Madhava Gore, "Exploring AI-Assisted Techniques for Diabetic Retinopathy Detection: A Comprehensive Review", <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , Springer, Accepted on October 30, 2025. (IF-2.0) <a href="https://doi.org/10.1007/s13721-025-00647-6">https://doi.org/10.1007/s13721-025-00647-6</a>  |
| 8.  | 2025 | Nikita Sinha, and <b>Vibhav Prakash Singh</b> . "Detection of Lung Diseases from Acoustic Recordings using Statistical Moments of MFCC and Machine Learning." <i>Procedia Computer Science</i> 260, pp. 142-150, Jan 2025. (Scopus) <a href="https://doi.org/10.1016/j.procs.2025.03.187">https://doi.org/10.1016/j.procs.2025.03.187</a>   |
| 9.  | 2025 | Tyagi, Ashima, <b>Vibhav Prakash Singh</b> , and Manoj Madhava Gore. "Enhanced Schizophrenia detection using ensemble deep learning and orthogonal linear transformation of structural MRI." <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , Vol 14, no. 1, pp. 65, July 2025. (IF-2.0) <a href="https://doi.org/10.1007/s13721-025-00557-7">https://doi.org/10.1007/s13721-025-00557-7</a>                         |
| 10. | 2024 | Sumit Kumar, Antriksh Goswami, <b>Vibhav Prakash Singh</b> , and Ruchir Gupta. "A Technique for Faster Convergence of Game-Theoretic Approaches for Edge Computing Resource Allocation." <i>IEEE Transactions on Services Computing</i> , Vol: 17, pp. 3110 – 3121, 2024. (IF-5.8)  |
| 11. | 2024 | Ankur Prakash, <b>Vibhav Prakash Singh</b> , "Content-based CT image retrieval for emphysema using texture and shape features", <i>SN Computer Science</i> , Springer , Vol. 5, pp. 950, Oct 2024. (Scopus) <a href="https://doi.org/10.1007/s42979-024-03313-2">https://doi.org/10.1007/s42979-024-03313-2</a>   |
| 12. | 2024 | Ashima Tyagi, <b>Vibhav Prakash Singh</b> , and Manoj Madhava Gore, "Detection of Schizophrenia from EEG signals using Selected Statistical Moments of MFCC and Ensemble Learning", <i>Neuroinformatics</i> , Springer, Vol. 22 (4), pp. 499-520, 2024. (IF-3.1) <a href="https://doi.org/10.1007/s12021-024-09684-4">https://doi.org/10.1007/s12021-024-09684-4</a>  |
| 13. | 2024 | R Maurya, S Mahapatra, M Datta, <b>Vibhav Prakash Singh</b> , and NN Pandey, "Skin Cancer Detection through Attention Guided Deep Features with Extreme Learning Machine", <i>Scientific Reports, Nature</i> , Vol. 14, pp.17785, August 2024, (IF-3.9), <a href="https://doi.org/10.1038/s41598-024-68749-1">https://doi.org/10.1038/s41598-024-68749-1</a>  |
| 14. | 2024 | J. Sharmila, A. Vidyarthi, and <b>Vibhav Prakash Singh</b> , "An Improved Approach for Initial Stage Detection of Laryngeal Cancer using Effective Hybrid Features and Ensemble Learning Method", <i>Multimedia Tools and Applications</i> , Vol. 86 (3), pp. 17897-17919, Feb 2024, (IF-3.0, 2023), <a href="https://doi.org/10.1007/s11042-023-16077-3">https://doi.org/10.1007/s11042-023-16077-3</a>  |
| 15. | 2024 | Imtiyaz Ahmad, <b>Vibhav Prakash Singh</b> , and Manoj Madhava Gore, "Segmented Central Symmetric-LBP Based Texture Features for the Detection of Diabetic Retinopathy Using SVM", <i>SN Computer Science</i> , Springer, Vol. 5 (5), pp. 648, June 2024 (Scopus), <a href="https://doi.org/10.1007/s42979-024-02996-x">https://doi.org/10.1007/s42979-024-02996-x</a>  |
| 16. | 2023 | <b>Vibhav Prakash Singh</b> , Aman Verma, DK Singh, and Ritesh Maurya, "Improved Content-Based Brain Tumour Retrieval for Magnetic Resonance Images using Weight Initialization Framework with Densely Connected Deep Neural Network", <i>Neural Computing and Applications</i> , Springer, (IF-4.5, 2023), Published on November 15, 2023. <a href="https://doi.org/10.1007/s00521-023-09149-w">https://doi.org/10.1007/s00521-023-09149-w</a> |
| 17. | 2023 | Aquib Ansari, DK Singh, and <b>Vibhav Prakash Singh</b> , "Detecting Abnormal Behavior in Megastore for Crime Prevention using a Deep Neural Architecture, <i>International Journal of Multimedia Information Retrieval</i> , Vol. 12 (2), pp.25, Dec 2023 (IF-3.6), <a href="https://doi.org/10.1007/s13735-023-00289-2">https://doi.org/10.1007/s13735-023-00289-2</a>  |
| 18. | 2023 | Ashima Tyagi, <b>Vibhav Prakash Singh</b> , and MM Gore, "An Efficient Automated Detection of Schizophrenia Using k-NN and BoW Features", <i>SN Computer Science</i> , Springer, Vol. 4 (5), pp. 518, July 2023, (Scopus), <a href="https://doi.org/10.1007/s42979-023-01947-2">https://doi.org/10.1007/s42979-023-01947-2</a>  |
| 19. | 2023 | Aquib Ansari, DK Singh, and <b>Vibhav Prakash Singh</b> , "Detecting Abnormal Behavior in   |

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|     |      | Megastore for Intelligent Surveillance through 3D Deep Convolutional Model”, <i>SCIENDO Journal of Electrical Engineering</i> , Vol. 74 (3), pp. 140-153, June 2023 (IF-1.0), <a href="https://doi.org/10.2478/jee-2023-0020">https://doi.org/10.2478/jee-2023-0020</a>  |
| 20. | 2023 | <b>Vibhav Prakash Singh*</b> , Dhruba Jyoti, and Vinay Kumar, “A lightweight knowledge-based PSO for SVM hyper-parameters tuning in a dynamic environment”, <i>The Journal of Supercomputing</i> , Springer, Vol. 79 (16), pp. 18777-18799, Nov 2023 (IF-2.7), <a href="https://doi.org/10.1007/s11227-023-05385-y">https://doi.org/10.1007/s11227-023-05385-y</a>   |
| 21. | 2023 | <b>Vibhav Prakash Singh*</b> , Ashish Ranjan, “Affirmative and Negative Sentence Detection in the Brain Using SVM-RFE and Rotation Forest: An fMRI Study”, <i>SN Computer Science</i> , Springer, Vol 4(4), pp.232, March 2023 (Scopus) <a href="https://doi.org/10.1007/s42979-023-01786-1">https://doi.org/10.1007/s42979-023-01786-1</a>  |
| 22. | 2023 | Dhruba Jyoti, <b>Vibhav Prakash Singh</b> , and Vinay Kumar, “A Novel Adaptive Optimization Framework for SVM Hyper-Parameters tuning in Non-stationary Environment: A Case Study on Intrusion Detection System”, <i>Expert Systems with Applications</i> , Elsevier, Vol. 213, pp. 119189, March 2023. (IF-7.5). <a href="https://doi.org/10.1016/j.eswa.2022.119189">https://doi.org/10.1016/j.eswa.2022.119189</a>                  |
| 23. | 2022 | Ashima Tyagi, <b>Vibhav Prakash Singh</b> , and Manoj Madhava Gore, “Towards artificial intelligence in mental health: a comprehensive survey on the detection of schizophrenia”, <i>Multimedia Tools and Applications</i> , Springer, pp. 1-63, October 2022, (IF-3.0, 2023), <a href="https://doi.org/10.1007/s11042-022-13809-9">https://doi.org/10.1007/s11042-022-13809-9</a>   |
| 24. | 2022 | <b>Vibhav Prakash Singh</b> and Aman Verma, “Design, Analysis and Implementation of Efficient Deep Learning Frameworks for Brain Tumor Classification”, <i>Multimedia Systems</i> , Springer, Vol. 81 (26), pp. 37541-37567, Nov 2022 (IF-3.0), <a href="https://doi.org/10.1007/s11042-022-13545-0">https://doi.org/10.1007/s11042-022-13545-0</a>  |
| 25. | 2022 | Rahul K, Vivek Tiwari, Swati Jain, Alok Singh Kushwaha, and <b>Vibhav Prakash Singh</b> ”, A Role-Entity Based Human Activity Recognition Using Inter-Body Features and Temporal Sequence Memory” <i>IET Image Processing</i> , Wiley, Vol.16, pp. 2911–2921, 2022. (IF-2.34), <a href="https://doi.org/10.1049/ipr2.12472">https://doi.org/10.1049/ipr2.12472</a>   |
| 26. | 2022 | <b>Vibhav Prakash Singh*</b> , Manish Gupta, and Kamlesh Kumar Gupta, “An Efficient Image Encryption Technique Based on Two-Level Security for Internet of Things”, <i>Multimedia Tools and Applications</i> , Springer, pp.1-26, February 2022, Springer (IF-3.0, 2023), <a href="https://doi.org/10.1007/s11042-022-12169-8">https://doi.org/10.1007/s11042-022-12169-8</a>  |
| 27. | 2022 | <b>Vibhav Prakash Singh*</b> , Dhruba Kalita, and Vinay Kumar, “Detection of Breast Cancer Through Mammogram Using Wavelet-Based LBP Features and IWD Feature Selection Technique”, <i>SN Computer Science</i> , Springer, Vol. 3, pp. 175, Feb 2022, <a href="https://doi.org/10.1007/s42979-022-01071-7">https://doi.org/10.1007/s42979-022-01071-7</a> (Scopus)   |
| 28. | 2021 | Dhruba Jyoti, <b>Vibhav Prakash Singh</b> , and Vinay Kumar. "Two way Threshold Based Intelligent Water Drops Feature Selection Algorithm for Accurate Detection of Breast Cancer", <i>Soft Computing</i> , Springer , Vol. 26 (5) , pp. 2277-2305, Nov 2021 (IF-2.5). <a href="https://doi.org/10.1007/s00500-021-06498-3">https://doi.org/10.1007/s00500-021-06498-3</a>   |
| 29. | 2021 | Ashish Ranjan, <b>Vibhav Prakash Singh</b> , Ravi Bhusan Mishra, and Anil Kumar Singh. "Sentence Polarity Detection Using Stepwise Greedy Correlation Based Feature Selection and Random Forests: An fMRI Study." <i>Journal of Neurolinguistics</i> , Elsevier, Vol. 59, pp. 100985, August 2021. (IF-1.2), <a href="https://doi.org/10.1016/j.jneuroling.2021.100985">https://doi.org/10.1016/j.jneuroling.2021.100985</a>           |
| 30. | 2021 | Shailendra Singh, <b>Vibhav Prakash Singh</b> , and AK Mehta, “Differential Evolution Using Homeostasis Adaption Based Mutation Operator and Its Application for Software Cost Estimation”, <i>Journal of King Saud University-Computer and Information System</i> , Elsevier, Volume 33 (6), July 2021, pp. 740-752, (IF-6.1) <a href="https://doi.org/10.1016/j.jksuci.2018.05.009">https://doi.org/10.1016/j.jksuci.2018.05.009</a> |
| 31. | 2021 | Dhruba Jyoti, <b>Vibhav Prakash Singh</b> , and Vinay Kumar. "A Dynamic Framework for Tuning SVM Hyper Parameters based on Moth-Flame Optimization and Knowledge-Based Search." <i>Expert Systems with Applications</i> , Elsevier, Vol.168, Apr 2021, pp. 114139, (IF-7.1). <a href="https://doi.org/10.1016/j.eswa.2020.114139">https://doi.org/10.1016/j.eswa.2020.114139</a>   |
| 32. | 2021 | Vinay Kumar, Ashish Kumar Maurya, Karam Veer Singh, Aditya Narayan Hati, and <b>Vibhav Prakash Singh</b> . "Safety Analysis of Safety-Critical Systems for their Applicability on NPP Systems: A State-of-the-Art Review." <i>Quality and Reliability Engineering</i> , Wiley, Vol. 37(5), pp. 1796-1831, January 2021, (IF-2.8) <a href="https://doi.org/10.1002/qre.2828">https://doi.org/10.1002/qre.2828</a>                       |

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| 33. | 2020 | Nagendra Pratap Singh and <b>Vibhav Prakash Singh</b> , "Efficient Segmentation and Registration of Retinal Image Using Gumble Probability Distribution and BRISK Feature", <i>Traitement du Signal</i> , Vol. 37 (5), pp. 855-864, Oct 2020. (IF-1.0) DOI: <a href="https://doi.org/10.18280/ts.370519">https://doi.org/10.18280/ts.370519</a>  |
| 34. | 2020 | Ashish Ranjan, <b>Vibhav Prakash Singh</b> , Anil Kumar Singh, and Ravi Bhushan Mishra. "Classifying Brain State in Sentence Polarity Exposure: An ANN Model for fMRI Data", <i>Revue d'Intelligence Artificielle</i> , Vol. 34 No. 3, pp. 361-368, June 2020. DOI: <a href="https://doi.org/10.18280/ria.340315">https://doi.org/10.18280/ria.340315</a> (Scopus)   |
| 35. | 2019 | <b>Vibhav Prakash Singh</b> , Rajeev Srivastava, Yadunath Pathak, Shailendra Tiwari, and Kuldeep Kaur. "Content-Based Image Retrieval Based on Supervised Learning and Statistical-Based Moments." <i>Modern Physics Letters B</i> , Vol. 33, no. 19, pp. 1950213, July 2019 (IF-2.668), DOI: <a href="https://doi.org/10.1142/S0217984919502130">https://doi.org/10.1142/S0217984919502130</a>                                    |
| 36. | 2018 | <b>Vibhav Prakash Singh</b> and Rajeev Srivastava, "Automated and Effective Content-Based Mammogram Retrieval Using Wavelet Based CS-LBP Feature and Self-Organizing Map", <i>Biocybernetics &amp; Biomedical Engineering</i> , Elsevier, Vol. 38, pp.90-105, Jan 2018, (IF-6.6) DOI: <a href="https://doi.org/10.1016/j.bbe.2017.09.003">https://doi.org/10.1016/j.bbe.2017.09.003</a>  |
| 37. | 2018 | <b>Vibhav Prakash Singh</b> , Subodh Srivastava, and Rajeev Srivastava, "An Efficient and Automated Content Based Image Retrieval for Digital Mammography", <i>Journal of X-Ray Science and Technology</i> , Vol 26 (1), pp. 29–49, Jan 2018, IOS Press UK, (IF-1.4), DOI: <a href="https://doi.org/10.3233/XST-17306">https://doi.org/10.3233/XST-17306</a>   |
| 38. | 2018 | <b>Vibhav Prakash Singh</b> and Rajeev Srivastava, "Effective Image Retrieval Based on Hybrid Features with Weighted Similarity Measure and Query Image Classification", <i>Int. J. Computational Vision and Robotics</i> , Vol. 8, No. 2, 2018, pp.91-121, Inderscience. DOI: <a href="https://doi.org/10.1504/IJCVR.2018.091979">https://doi.org/10.1504/IJCVR.2018.091979</a> (Scopus)  |
| 39. | 2018 | <b>Vibhav Prakash Singh</b> and Rajeev Srivastava, "Improved CBIR System Using Fusion of Fast Features with Varying Weighted Similarity Measure and Random Forest Classifier", <i>Multimedia Tools and Applications</i> , Springer, Vol.77 (11), pp. 11435-14460, June 2018, (IF-3, 2023). DOI: <a href="https://doi.org/10.1007/s11042-017-5036-8">https://doi.org/10.1007/s11042-017-5036-8</a>                                  |
| 40. | 2017 | <b>Vibhav Prakash Singh</b> , Subodh Srivastava, and Rajeev Srivastava, "Effective Mammogram Classification Based on Center Symmetric-LBP features in Wavelet Domain Using Random Forest Classifier", <i>Technology and Health Care</i> , Vol. 25, pp. 709–727, Jan 2017, (IF-1.285). DOI: <a href="https://doi.org/10.3233/thc-170851">https://doi.org/10.3233/thc-170851</a>   |
| 41. | 2017 | <b>Vibhav Prakash Singh</b> and Rajeev Srivastava, "Content-Based Mammogram Retrieval Using Wavelet based Complete-LBP and K-means Clustering for the Diagnosis of Breast Cancer", <i>International Journal of Hybrid Intelligent System</i> , Vol. 14, 2017, pp.31-39, IOS Press UK, DOI: <a href="https://doi.org/10.3233/HIS-170240">https://doi.org/10.3233/HIS-170240</a> (Scopus)  |
| 42. | 2017 | Yashankit, <b>Vibhav Prakash Singh</b> , and Rajeev Srivastava "Comparative Analysis of Distance Metrics for Designing an Effective Content-Based Image Retrieval System Using Colour and Texture Features", <i>International Journal of Image, Graphics and Signal Processing</i> , Vol. 9 (12), pp. 58-64, 2018, MECS Press Hong Kong. DOI: <a href="https://doi.org/10.5815/ijigsp">https://doi.org/10.5815/ijigsp</a> (Scopus) |

#### Published Journals (ACM/DBLP and Other Indexed, Total: 04):

|     |      |  |
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| 43. | 2017 | <b>Vibhav Prakash Singh</b> , Subodh Srivastava, and Rajeev Srivastava. "An Efficient Image Retrieval Based on Fusion of Fast Features and Query Image Classification" <i>International Journal of Rough Sets and Data Analysis</i> , IGI Global USA, 4 (1), pp. 19-37, 2017, DOI: <a href="https://doi.org/10.4018/IJRSDA.2017010102">https://doi.org/10.4018/IJRSDA.2017010102</a> (ACM)       |
| 44. | 2017 | Chakrapani, Sumit Raj, and <b>Vibhav Prakash Singh</b> , "Detection of Chronic Kidney Disease Using Artificial Neural Network", <i>International Journal of Applied Engineering Research</i> , Vol. 14 (10), pp. 145-149, 2019 (Scopus, 2019)  |
| 45. | 2017 | <b>Vibhav Prakash Singh</b> , Ashim Gupta, and Rajeev Srivastava. "Fast and Effective Image Retrieval Using Colour and Texture Features with Self-Organising Map." <i>International Journal of Computational Systems Engineering</i> , Inderscience UK, Vol. 3(3), pp. 133-143, 2017. DOI: <a href="https://doi.org/10.1504/IJCSYSE.2017.086738">https://doi.org/10.1504/IJCSYSE.2017.086738</a> |
| 46. | 2016 | <b>Vibhav Prakash Singh</b> , Ayush Srivastava, Devang Kulshreshtha, Arpit Chaudhary, and  |

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|     |      | Rajeev Srivastava. "Mammogram Classification Using Selected GLCM Features and Random Forest Classifier." <i>International Journal of Computer Science and Information Security</i> , Vol. 14 (6), pp. 82-88, 2016. (ESCI, 2017)                                    |
| 47. | 2012 | <b>Vibhav Prakash Singh</b> , Singh Gaurav Arvind, and Arindam G. Mahapatra. "Hybrid correlation based gene selection for accurate cancer classification of gene expression data." <i>International Journal of Computer Applications</i> 43, no. 14 (2012): 13-18. |
| 48. | 2012 | Meena, K. Y., and <b>VP. Singh</b> . "Text documents clustering using genetic algorithm and discrete differential evolution." <i>International journal of computer applications</i> 43, no. 1 (2012): 975-8887.  |

#### Published Books: (Total: 03)

| SN | Year | Details   |
|----|------|---|
| 1. | 2025 | Dey, Somen, Vidyapati Kumar, Dilip Kumar Pratihar, <b>Vibhav Prakash Singh</b> , and Sardar Islam, eds. "Advancing Healthcare Through Decision Intelligence: Machine Learning, Robotics, and Analytics in Biomedical Informatics" Academic Press, (2025) Elsevier |
| 2. | 2013 | <b>Vibhav Prakash Singh</b> , "Data Mining Approaches for Classifying Gene Expression Data of Cancer", ISBN Number: 978-3-659-39144-6, LAP LAMBERT Publishing Saarbrucken Deutschland, Germany.   |
| 3. | 2013 | <b>Vibhav Prakash Singh</b> , and Navneet Solanki, "IT Infrastructure & Its Management", ISBN Number: 978-93-81126-52-3, First Edition 2012, at Nandani Prakashan Pvt. Ltd., New Delhi.   |

#### Published Chapters: (Total: 04)

| SN | Year | Details   |
|----|------|---|
| 1. | 2024 | Ranjan, Ashish, and <b>Vibhav Prakash Singh</b> . "Language processing in the brain: An fMRI study." Elsevier (2024).   |
| 2. | 2021 | <b>Vibhav Prakash Singh</b> and Ashish Kumar Maurya, "Role of Machine learning and Texture Features for the Diagnosis of Laryngeal Cancer", <i>Machine Learning for Healthcare Applications</i> , pp. 353-367, April 12, 2021, Wiley. |
| 3. | 2021 | Imtiyaz Ahmad, <b>Vibhav Prakash Singh</b> , and Suneeta Agarwal, "Applications of Deep Learning in Diabetic Retinopathy Detection", <i>Deep learning and Its Applications</i> , pp.49-72, November 8, 2021, NOVA Publication, USA.   |
| 4. | 2021 | Palakala Sai Krishna Yadhav, K Susheel Kumar, <b>Vibhav Prakash Singh</b> , and Nagendra Pratap Singh, "Deep Learning Applications", <i>Deep learning and Its Applications</i> , pp.115-130, November 8, 2021, NOVA Publication, USA. |

#### Conferences: (Total: 41, International Conferences-36, National-5)

| SN | Year | Details   |
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| 1. | 2025 | Ekram Haque and <b>Vibhav Prakash Singh</b> , "Robust Retinal Vessel Segmentation in Noisy Fundus Images Using Deep Learning-Based Variants", Accepted and Presented in 18 <sup>th</sup> IEEE-International Conference on Contemporary Computing, IIIT Noida, 2025.                   |
| 2. | 2025 | Imtiyaz Ahmad, Vibhav Prakash Singh, MM Gore, "Detection of Diabetic Retinopathy using Deep Inception Features and Support Vector Machine", Accepted and Presented in 4 <sup>th</sup> International Conference on Machine Learning and Data Engineering, Dehradun, 2025.              |
| 3. | 2025 | Rukmini Maiti, and <b>Vibhav Prakash Singh</b> . "Source Camera Model Identification Using Deep Features and Ensemble Learning." In 2025 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC), pp. 1-6. IEEE, 2025.                            |
| 4. | 2024 | Sudhansu Kumar, Ashish Ranjan, and <b>Vibhav Prakash Singh</b> . "DDoS Attack Detection Using Explainable AI in Machine Learning." In <i>International Conference on Advanced Network Technologies and Intelligent Computing</i> , pp. 3-16. Cham: Springer Nature Switzerland, 2024. |
| 5. | 2024 | Vaibhav Kumar, and <b>Vibhav Prakash Singh</b> . "Fine-Tuning and Efficacy Assessment of BERT-Based Models in Detecting Early Signs of Depression." In <i>International Conference on Advanced Network Technologies and Intelligent Computing</i> , pp. 371-383. Cham: Springer       |

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|     |      | Nature Switzerland, 2024.  |
| 6.  | 2024 | Arpita S, <b>Vibhav Prakash Singh</b> , and Rupesh Dewang. "Content-Based Retinal Image Analysis: Exploring the Impact of Similarity Measures and Machine Learning on LTP Features." In <i>IEEE Students Conference on Engineering and Systems</i> , pp. 1-6. IEEE, 2024.  |
| 7.  | 2024 | Ankur P and <b>Vibhav Prakash Singh</b> . "Detection of Lung Diseases Using Deep Transfer Learning-Based Convolution Neural Networks." In <i>International Conference on Advanced Network Technologies &amp; Intelligent Computing</i> , pp. 82-92. Springer Switzerland, 2023.  |
| 8.  | 2024 | Prakash, Ankur, Mahima Jaiswal, Chakrapani Singh, and <b>Vibhav Prakash Singh</b> . "Semantic Segmentation of Brain Tumor Images Using Attention-based Residual U-Net Model." In <i>2024 International Conference on Control, Computing, Communication and Materials (ICCCCM)</i> , pp. 210-214. IEEE, 2024.                               |
| 9.  | 2023 | Omar, Divyansh, Bharat Mahaur, and <b>Vibhav Prakash Singh</b> . "Toward Feature Preserving High-Resolution Virtual Try-On." In <i>International Conference on Signal and Data Processing</i> , pp. 37-47. Singapore: Springer Nature Singapore, 2023.   |
| 10. | 2023 | Chanduka, Pranali, <b>Vibhav Prakash Singh</b> , and Sumeet Sagar. "Detection of Brain Tumour Using Hybrid." In <i>Intelligent Computing Systems and Applications: Proceedings of the 2nd International Conference, ICICSA 2023</i> , vol. 1010, p. 189. Springer Nature, 2024.  |
| 11. | 2023 | Soni, Vaibhav, and <b>Vibhav Prakash Singh</b> . "Copy-Move Forgery Detection Using HOG and LBP Features with Random Forest." In <i>2023 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)</i> , pp. 13-18. IEEE, 2023.   |
| 12. | 2023 | Imtiyaz Ahmad, <b>Vibhav Prakash Singh</b> , M.M. Gore, "Diabetic Retinopathy Detection based on LBP and Statistical Features using Machine Learning", Accepted and Presented in <i>International Conference on Computer, Electronics &amp; Electrical Engineering &amp; their Applications (IC2E3)</i> , 2023, IEEE                       |
| 13. | 2023 | Maurya, Ritesh, Nageshwar Nath Pandey, <b>Vibhav Prakash Singh</b> , and T. Gopalakrishnan. "Plant Disease Classification using Interpretable Vision Transformer Network." In <i>2023 International Conference on Recent Advances in Electrical, Electronics &amp; Digital Healthcare Technologies (REEDCON)</i> , pp. 688-692. 2023, IEEE |
| 14. | 2022 | Ashima Tyagi, <b>Vibhav Prakash Singh</b> , and M.M. Gore, "Machine Learning Approaches for the Detection of Schizophrenia Using Structural MRI", <i>International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2022)</i> , BHU Varanasi, Accepted, and Presented on December 23, 2022.                    |
| 15. | 2022 | Prashant Prashant, Gargi Srivastava and <b>Vibhav Prakash Singh</b> , "Ensemble of Deep Learning approaches for Detection of Brain Tumor", Accepted and Presented in <i>International Conference on Advancements In Smart Computing And Information Security</i> , Marwadi University Rajkot, November 24–26, 2022.                        |
| 16. | 2022 | Mayank Singhal, <b>Vibhav Prakash Singh</b> , and Manoj Wairiya, "Detection of Laryngeal Cancer Using Deep learning Techniques", <i>Fourth International Conference on Computing and Communication</i> , June 3, 2022, Bhubaneswar.  |
| 17. | 2022 | Saivya Gulati, <b>Vibhav Prakash Singh</b> , and Shailendra Shukla. "Comparative Analysis of Deep Learning Approaches for the Diagnosis of Diabetic Retinopathy." In <i>2022 IEEE Students Conference on Engineering and Systems (SCES)</i> , pp. 1-6. IEEE, 2022.   |
| 18. | 2022 | Shailendra Pratap Singh and <b>Vibhav Prakash Singh</b> , "Pareto Based differential Evolution Algorithm using New Adaptive Mutation Approach ", Accepted and Presented in <i>International Conference on Intelligent Systems and Smart Infrastructure (ICISSI-2022)</i> at SIET Prayagraj.  |
| 19. | 2022 | Imtiyaz, <b>Vibhav Prakash Singh</b> , and Suneeta Agarwal. "Detection of Diabetic Retinopathy Using Deep Learning-Based Framework." In <i>Machine Intelligence and Smart Systems</i> , pp. 223-233. Springer, Singapore, 2022.  |
| 20. | 2022 | Abhay Vidyarthi and <b>Vibhav Prakash Singh</b> . "Multiclass Image Classification Using OAA-SVM." In <i>Machine Intelligence and Smart Systems</i> , pp. 235-244. Springer, Singapore, 2022.  |
| 21. | 2021 | Aman Verma and <b>Vibhav Prakash Singh</b> , "HSADML: Hyper-Sphere Angular Deep Metric based Learning for Brain Tumor Classification", <i>12th-ICVGIP Workshop on Medical Image Processing, IIT Ropar</i> , December 19, 2021.   |

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| 22. | 2021 | Ashima Tyagi, <b>Vibhav Prakash Singh</b> , and Manoj Madhava Gore. "Improved Detection of Coronary Artery Disease Using DT-RFE Based Feature Selection and Ensemble Learning." In <i>International Conference on Advanced Network Technologies and Intelligent Computing</i> , pp. 425-440. Springer, Cham, 2021.                                 |
| 23. | 2021 | Ashish, Anil Kumar Singh, Anil Kumar Thakur, and <b>Vibhav Prakash Singh</b> . "Sentential Negation Identification of FMRI Data Using k-NN." In <i>Machine Intelligence and Smart Systems</i> , pp. 657-664. Springer, Singapore, 2021.  |
| 24. | 2020 | Chakrapani, <b>Vibhav Prakash Singh</b> and Dhruba Jyoti Kalita, "Chronic Kidney Disease Detection Using Random Forests and Eigenvectors Based Feature Selection", <i>Accepted and Presented in International Conference (AISCC-2020) at MNIT Jaipur</i> .   |
| 25. | 2020 | Abhishek Kumar, Dhruba Jyoti Kalita, and <b>Vibhav Prakash Singh</b> . "A Modern Pothole Detection technique using Deep Learning." In <i>2nd International Conference on Data, Engineering and Applications (IDEA)</i> , pp. 1-5. IEEE, 2020.  |
| 26. | 2020 | Dhruba Jyoti, <b>Vibhav Prakash Singh</b> , and Vinay Kumar. "A Survey on SVM Hyper-Parameters Optimization Techniques." In <i>Social Networking and Computational Intelligence</i> , pp. 243-256. Springer, Singapore, 2020.  |
| 27. | 2020 | Dhruba Jyoti, <b>Vibhav Prakash Singh</b> , and Vinay Kumar. "SVM Hyper-Parameters Optimization using Multi-PSO for Intrusion Detection." In <i>Social Networking and Computational Intelligence</i> , pp. 227-241. Springer, Singapore, 2020.   |
| 28. | 2019 | <b>Vibhav Prakash Singh</b> and Dhruba Jyoti Kalita, "Classifying Gene Expression of Data of Cancer Using Multistage Ensemble of Neural Network", in <i>ICACSE-2019 at KNIT Sultanpur</i> , held on 8-9th Feb, 2019 Published by Elsevier SSRN.  |
| 29. | 2018 | <b>Vibhav Prakash Singh</b> and Rajeev Srivastava. "Improved Content-Based Image Classification Using a Random Forest Classifier." In <i>Advances in Computer and Computational Sciences</i> , pp. 365-376. Springer, Singapore, 2018.   |
| 30. | 2017 | <b>Vibhav Prakash Singh</b> and Rajeev Srivastava, Improved image retrieval using color-invariant moments, <i>2017 3rd International Conference on Computational Intelligence &amp; Communication Technology</i> , pp.1 – 6. IEEE, 9-10, Feb-2017.   |
| 31. | 2017 | <b>Vibhav Prakash Singh*</b> ; Devang Kulshreshtha*; Ayush Srivastava; Rajeev Srivastava, Content-based mammogram retrieval using k-means clustering and local binary pattern, <i>2017 2nd International Conference on Image, Vision and Computing (ICIVC)</i> , Pages: 634 – 638, Chedgu, China, IEEE, 2-4, June-2017                             |
| 32. | 2017 | Ayush Srivastava, Arpit Chaudhary, Devang Kulshreshtha, <b>Vibhav Prakash Singh</b> , and Rajeev Srivastava, "Automated digital mammogram segmentation using Dispersed Region Growing and Sliding Window Algorithm", <i>2017 2nd International Conference on Image, Vision and Computing</i> , 2017, Pages: 366 – 370, China, IEEE, 2-4 June-2017. |
| 33. | 2016 | <b>Vibhav Prakash Singh</b> , Shivoam Malhotra, and Rajeev Srivastava. "Combining hybrid information descriptors and DCT for improved CBIR performance." In <i>Control, Computing, Communication and Materials (ICCCCM)</i> , 2016 International Conference on, pp. 1-5. IEEE, 21-22, Oct-2016.  |
| 34. | 2016 | <b>Vibhav Prakash Singh</b> , Published and presented a poster paper on "Computer Added Diagnosis of Breast Cancer Assisted by Content Based Mammogram Retrieval" at <i>CSED IIT (BHU)</i> , Varanasi, April 2-3, 2016.  |
| 35. | 2015 | <b>Vibhav Prakash Singh</b> , Ashim Gupta, Shubham Singh, and Rajeev Srivastava. "An efficient content based image retrieval for normal and abnormal mammograms." In <i>2015 IEEE UP Section Conference on Electrical Computer and Electronics (UPCON)</i> , pp. 1-6. IEEE, 4-6, Dec-2015.   |
| 36. | 2015 | <b>Vibhav Prakash Singh</b> and Rajeev Srivastava. "Design & performance analysis of content based image retrieval system based on image classification using various feature sets." In <i>Futuristic Trends on Computational Analysis and Knowledge Management (ABLAZE)</i> , pp. 664-670. IEEE, 25-27, Feb-2015.                                 |

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| 37. | 2015 | <b>Vibhav Prakash Singh</b> , Rajeev Srivastava, and Neeraj Kumar “Multistage Ensemble Classification for Gene Expression Data of Cancer Using Correlated Informative Features”, <i>ICRCWIP 2015</i> , Poornima University- Jaipur, 16-17 Jan-2015.  |
| 38. | 2014 | Kriti Singh, Rajeev Srivastava, and <b>Vibhav Prakash Singh</b> “An Introductory Survey on Content-Based Image Retrieval”, National Conference on <i>Present Scenario and Future Trends in Biomedical Engineering and Healthcare Technologies (FTBH 2014)</i> , School of Biomedical Engineering, IIT (BHU), Varanasi, Oct. 17-18, 2014.                   |
| 39. | 2013 | <b>Vibhav Prakash Singh</b> , Paper Published & Presented in <i>National Conference on Trends &amp; Advancement in Computer Science &amp; Engineering</i> 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. |
| 40. | 2013 | <b>Vibhav Prakash Singh</b> and Achal Tomer, Paper Published & Presented in <i>AICTE Sponsored National Conference-Advance in ICT</i> at MITS Gwalior on “Information Security Using Color Image Watermarking Using Images for Transmitting Secret Information”, held on 28-29 Oct-2013.   |
| 41. | 2011 | <b>Vibhav Prakash Singh</b> and Ashu Sharma, Paper Published & Presented in <i>National Conference of Artificial Intelligence &amp; Agent Application</i> , IIT (BHU), Varanasi on “Correlation Based Gene Selection for Accurate Cancer Classification of Gene Expression Data”, held on 9-10th Dec-2011.   |

### Organized Workshops/Trainings/Faculty Development Programs: (Role: Convener)

- [1] Organized One-Week Workshop Program on “SERB High-End Workshop (KARYASHALA) on “A Practical Approach to Machine Learning and Deep Learning for Computer Vision Applications using High-End Computing Resources” Organized by CSED, MNNIT Allahabad during March 15-22, 2024.
- [2] Organized One-Week Workshop Program on “Workshop on Advanced Computing Technologies” Organized by CSED, MNNIT Allahabad during February 7-11, 2022.
- [3] Organized One-Week Short-term Course on “Machine Learning and its Applications in IoT, Computer Vision and Cloud Computing (MICC-2021)” organized by CSED, MNNIT Allahabad during September 20-24, 2021
- [4] Organized One-Week Short-term Course on Understanding Deep Learning (Workshop cum Training Program), held on from March 15-19, 2021.

### Outreach Activities: (Total No.-44)

#### Expert Lectures /Invited Talks: (Total No.-15)

- [1] Delivered an Expert Lecture on Content-based Image Retrieval: An AI perspective in 17th Faculty Induction Programme programme in online mode at Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur from 02/06/2025 to 30/06/2025.
- [2] Delivered an Expert Lecture on Deep Learning in A Five day Online FDP on “Applications of AI-ML- Deep Learning in Engineering Fields, VIT Chennai, from 14/10/2024 to 18/10/2024.
- [3] Delivered an Expert Lecture on “Content-Based Image Retrieval: An AI Perspective” at MMMUT Gorakhpur on Jan 28, 2023.
- [4] Delivered an Expert Lecture on “Applications of Machine Learning”, Symposium on Machine Learning and Its Applications at Manipal Institute of Technology Bengaluru, MAHE, Manipal, 25-28 April, 2022.
- [5] Delivered an Expert Lecture on “Image Mining” in a One-Week Short Term Program on Research Trend in Machine Learning and IoT, at MNNIT Allahabad, held on from 15- 19 September, 2021.
- [6] Delivered an Expert Lecture on “Applications of Deep Learning” in a One-Week Training Program on Understanding Deep Learning, at MNNIT Allahabad, held on from March 15- 20 March, 2021.
- [7] Delivered Expert Lecture on “ Image Retrieval: An AI Perspective” at MNNIT Allahabad, Prayagraj on 22<sup>nd</sup> September 2021 in One Week Short Term Course on “Machine Learning and its Applications in IoT, Computer Vision and Cloud Computing (MICC-2021), organized by CSED, MNNIT Allahabad

- [8] Taken Hands-on Session on “WeKA Tool for the Analysis of Data” at MNNIT Allahabad on 22<sup>nd</sup> September 2021 in One Week Short Term Course on “Machine Learning and Its Applications in IoT, Computer Vision and Cloud Computing, organized by CSED, MNNIT Allahabad”.
- [9] Delivered an Expert Lecture on “CBIR and Its Applications” in an ATAL-FDP: Deep Learning in Computer Vision, June 9, 2021, at KNIT Sultanpur.
- [10] Delivered an Expert Lecture on “Deep Learning Applications in Computer Vision” in a TEQIP Sponsored Workshop on Computer Science as an Integral Part of Modern Technology Development, at Gaya College of Engineering, Gaya held on from 15/12/2020 to 19/12/2020.
- [11] Delivered an Expert Lecture on “CBIR and Text Analytics” in a ATAL-FDP on Data Science, at Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, C.G, held on from 12/10/2020 to 16/10/2020.
- [12] Delivered an Expert Lecture on “Some interesting use cases for deep learning” in a One Week FDP Program on Deep Learning and Machine Learning Applications in Computer Vision, at Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, C.G, held on from 22/08/2020 to 28/08/2020.
- [13] Delivered an Expert Lecture on “Computer Vision: An Image Mining Perspective” in a One Week Short Term Program on Research Trend in Machine Learning and IoT, at MNNIT Allahabad, Prayagraj, held on from 15/09/2021 to 19/09/2021.
- [14] Delivered an Expert Lecture on “Computer Vision: An AI Perspective” in a One –Day Webinar organized by Feroze Gandhi Institute of Engineering & Technology, Raebareli, June 8, 2020.
- [15] Delivered an Expert Lecture on “Role of Digital Education” Intellectual Basket of Women National Conference 2020 organized by Jayoti Vidyapeeth Women’s University, Jaipur in Virtual mode from June 16-21, 2020.

#### **Session Chaired in International Conferences: (Total No.-18)**

- [16] Session Chaired in 8th Students' Conference on Engineering & Systems, IEEE, held on 21-23 June 2024, Organized by EED, MNNIT Allahabad.
- [17] Session Chaired in 3<sup>rd</sup> -International Conference on Advanced Network Technologies and Intelligent Computing, BHU, Varanasi during December 20-22, 2023.
- [18] Session Chaired in International Conference on “Data Analytics and Intelligent Computing” (ICDAIC –2023) on 14<sup>th</sup> – 15<sup>th</sup> July 2023 organized by Department of Information Technology at Bansal Institute of Engineering and Technology, Lucknow.
- [19] Session Chaired IEEE International Conference on Artificial Intelligence and Applications (ICAIA- 2023) at Alliance University Bangalore, held on April 21, 2023
- [20] Session Chaired in 3<sup>rd</sup>- International Conference on Machine Intelligence and Smart Systems at Gwalior, held on from Feb 24-25, 2023
- [21] Session Chaired in 2<sup>nd</sup>-International Conference on Advanced Network Technologies and Intelligent Computing, BHU, Varanasi during December 22-24, 2023.
- [22] Session Chaired in 9<sup>th</sup> IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2022) is being organized at IIIT Allahabad in hybrid mode during December 2-4, 2022.
- [23] Session Chaired in International Conference on Advancements in Interdisciplinary Research (AIR2022), Motilal Nehru National Institute of Technology Allahabad, India, May 6-7, 2022.
- [24] Session Chaired in International Conference on Artificial Intelligence: Theory and Applications (AITA- 2021), National Institute of Technology Patna, December 23, 2021.
- [25] Session Chaired in 9<sup>th</sup> International Conference on Big Data Analytics at IIIT Allahabad, held on from December 15-18, 2021.
- [26] Session Chaired in International Conference on Advanced Network Technologies and Intelligent Computing, BHU, 17-18 December, 2021.
- [27] Session Chaired in 2<sup>nd</sup>- International Conference on Machine Intelligence and Smart Systems at Gwalior, held on from September 24-25, 2021.
- [28] Session Chaired in Machine Vision and Augmented Intelligence (2021), at IIITDM Jabalpur, held on from 11/02/2021 to 14/02/2021.
- [29] Session Chaired in 3<sup>rd</sup>-International Conference on Advance Computing and Software Engineering- 2021 at KNIT, Sultanpur, held on from 19/01/2021 to 20/01/2021.

- [30] Session Chaired in International Conference, MISS-2020, at Gwalior, held on from 24/09/2020 to 25/09/2020.
- [31] Served as a Jury Member in “Grand Finale of Smart India Hackathon 2020 (Software Edition)” at nodal center BHU, Varanasi, held on from 01/08/2020 to 03/08/2020.
- [32] Session Chaired in IEEE-SCES at MNNIT Allahabad, held on from 10/07/2020 to 12/07/2020.
- [33] Session Chaired in 2<sup>nd</sup>-International Conference on Advance Computing and Software Engineering-2019 at KNIT, Sultanpur.

#### **Attended Workshops/Faculty Development Programs: (Total No.-11)**

- [34] Participated in One-Week Induction Program at IIT Kanpur
- [35] Participated in Four Days Workshop on Mathematics in Engineering at IIT Bombay
- [36] Participated in Two Days Workshop on OBE Integration at VJTI, Mumbai.
- [37] Participated in One Week NBA Accreditation Program Organized by NITTR Kolkata
- [38] Participated in Two Days Workshop For OBE Integration and CO-PO Mapping at AKU, Patna
- [39] Participated in Five Days FDP Program on Research Methodology at GCE, Gaya
- [40] Participated in Two Days Workshop on NBA at GCE, Gaya
- [41] Participated in Four Week FDP program at HITM, Agra
- [42] Participated in Two Days Workshop on Meta Heuristic & IT researchers at IIITM Gwalior
- [43] Participated in One-Day Workshop on MAT LAB & SIMULINK organized by Math Works.
- [44] Participated in Two Days Workshop on NLP organized by IIT (BHU), Varanasi.

#### **Other Details:**

- Associate Editor, Multimedia Tools and Applications, Springer
- Actively serving as a reviewer for reputed international journals published by IEEE Transactions, Elsevier, Springer, Wiley, and Taylor & Francis etc.
- Best Paper Award in 2022-International Conference on Intelligent Systems and Smart Infrastructure at SIET Prayagraj.
- Best Paper Award in 4<sup>th</sup> 2024-IEEE International Conference on Control, Computing, Communication and Materials at UCER, Prayagraj.
- IIT (BHU) Institute Fellowship for Ph.D. from Jan 2014 to Jan 2018.
- MHRD GATE Scholarship for M.Tech from July 2009 to June 2011.
- Best Teacher Award at BSA College of Engineering and Technology, Mathura
- GATE-2009 Qualified
- ACM Professional Membership

(Dr. Vibhav Prakash Singh)