Publications:

Journals (SCI/Scopus)


• 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](https://doi.org/10.1016/j.jksuci.2018.05.009)

**Journals (ACM/DBLP/Other Indexed):**


Research Projects:

• **Title:** Content-Based Image Retrieval System Assisted by Mammogram Classification for the Diagnosis of Breast Cancer
• **Agency:** Collaborative Research Scheme under the Proposal of AICTE and TEQIP.
• **Project Grant:** Rs. 7.30 Lacs
• **Role:** CO-PI
• **Grant Year:** June 2019

Patents:

• Methods for Designing Dynamic framework for Tuning of SVM hyper parameters based on MFO and Knowledge-Based Search, Application No: 202031014705, published on 15/05/2020.

Books/Book Chapters:


• 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.


Conferences:


Vibhav Prakash Singh and Dhurba Jyoti Kalita, “Classifying Gene Expression of Data of Cancer Using Multistage Ensemble of Neural Network”, in ICACSE-2019 at KNIT Sultanpur, held on 8-9th Feb, 2019 Published by Elsevier SSRN.


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 (ICRET-18), 7th April’2018 Bangkok.


Vibhav Prakash Singh, Rajeev Srivastava, and Neeraj Kumar “Multistage Ensemble Classification for Gene Expression Data of Cancer Using Correlated Informative
• **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.


• **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.


**Work Experiences:**

- Worked as an Assistant Professor (TEQIP-III, World Bank project under NPIU New Delhi) in the Department of Computer Science and Engineering at Gaya College of Engineering, Gaya from 4th January 2018 to 8th June 2019.
- Worked as Teaching Assistant during Ph.D. (28th December-2013 to 3rd January-2018) in the Department of Computer Science and Engineering at IIT (BHU), Varanasi.
- Worked as an Assistant Professor in the Department of Computer Science/Information Technology Department at Anand Engineering College (Sharda University Group) Agra from July 2011 to December 2013.

**Professional Activities:**

**Reviewer:**

- IEEE Transaction on Industrial Electronics
- IEEE Transaction on Neural Networks and Learning Systems
Session Chair/ Program Committee (International Conferences):
- Jury Member in “Grand Finale of Smart India Hackathon 2020 (Software Edition)” at nodal center Banaras Hindu University, Varanasi from 1st to 3rd August, 2020.
- Session Chair in IEEE-SCES, MNNIT Allahabad
- Session Chair in Machine Vision and Augmented Intelligence (2021), IIITDM, Jabalpur
- Session Chair in International Conference, MISS-2020, Gwalior
- Session Chair in 3rd-International Conference on Advance Computing and Software Engineering-2021 at KNIT, Sultanpur.
- Session Chair in 2nd-International Conference on Advance Computing and Software Engineering-2019 at KNIT, Sultanpur.
- Program Committee member of Sixth International Conference on Communication Systems and Network Technologies, PTU Punjab.
- FRSM-2020, NIT Silchar

Invited Talks
- Delivered an Expert lecture on “Deep learning applications in computer vision” in a FDP on Computer Science as an Integral Part of Modern Technology Development, Gaya College of Engineering, Gaya.
- Delivered an Expert lecture on “Some interesting use cases for deep learning” in a FDP on Deep Learning and Machine Learning Applications in Computer Vision, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, C.G.
Delivered an Expert lecture on “CBIR and Text Analytics” in a ATAL program on Deep Learning and Machine Learning Applications in Computer Vision, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, C.G
Delivered an Expert lecture on “Role of Digital Education” Intellectual Basket of Women National Conference 2020 organized by Jayoti Vidyapeeth Women's University, Jaipur at University Virtual Base from June 16 - 21, 2020.

**Workshop/Faculty Development Program**
- Participated in one-week induction program at IIT Kanpur
- Participated in four days workshop on mathematics in engineering at IIT Bombay
- Participated in two days workshop on OBE Integration at VJTI, Mumbai.
- Participated in one week NBA accreditation program organized by NITTR Kolkata
- Participated in two days workshop for OBE integration and CO-PO mapping at AKU, Patna
- Participated in five days FDP program on research methodology at GCE, Gaya
- Participated in two days workshop on NBA at GCE, Gaya
- Participated in four week FDP program at HITM, Agra
- Participated in two days workshop on Meta Heuristic & IT researchers at IIITM Gwalior
- Participated in one-day workshop on MAT LAB & SIMULINK organized by Math Works.
- Participated in two days workshop on NLP organized by IIT (BHU), Varanasi.

**Specialization and Interesting Subjects:**

- Image Processing and Computer Vision
- Medical Image Analysis
- Data Mining
- Machine Learning
- Design & Analysis of Algorithms
- Computer Graphics
- Computer Networks
- Operating System and Advanced Operating System
- Cryptography & Network Security