Dr. Vineet Kumar Awasthi,
Assistant Professor

School: School of Mathematical and Computational Science

Department: Computer Science & Information Technology

Phone: 9926709807

Email: proffvineet@gmail.com

Personal Webpage Link:

Qualifications: Ph.D. (Computer Science), M. Phil (Computer Science), MCA

Area of Interest/Specialization: Data Mining, Machine Learning, Optimization

Experience: 4 years

Awards and Honors: NA

Research Projects: NA

International Collaboration/Consultancy: NA

REAEARCH PUBLICATIONS

1. "An integrated K-means-GP approach for US stock fund diversification and its impact due to COVID-19" is published at **2022** in **Int. J. Computational Economics and Econometrics (Inder Science, Scopus Indexed Journal).**
2. "An Improved and Customized Hybrid of Deep and Machine Learning Technique Model for Handwritten Digit Recognition" is published at **2022** in **SAMRIDDHI Journal, (UGC Care Listed Journal).**
3. "Coronary Artery Disease Classification using Deep Neural Network and Ensemble Models Optimized by Particle Swan Optimization" is published at **2022** in **International Journal of Applied Metaheuristic Computing, IGI Global (ESCI, Scopus Indexed Journal).**
4. **(2021),** "Detection of lung nodule and cancer using novel Mask-3 FCM and TWEDLNN algorithms". **Measurement.** 172:1-14 (**Elsevier, SCI, Scopus Indexed Journal**).
5. **(2021)**, "A Novel Design of Classification of Coronary Artery Disease Using Deep Learning and Data Mining Algorithms**". Revue d'Intelligence Artificielle | IIETA**. 35(3):209-215. (**Scopus Indexed Journal**)
6. **(2021)**, "An Ensemble Model With Genetic Algorithm for Classification of Coronary Artery Disease". International Journal of Computer Vision and Image Processing , IGI Global. 11(3):70-83 (**UGC- Care List Journal**)
7. **(2021)**, "Design Of CNN Based Model for Handwritten Digit Recognition Using Different Optimizer Techniques". **Turkish Journal of Computer and Mathematics Education**.

12(11): 3812-3819.

8. **(2021)**, "Novel Deep Neural Network Model for Handwritten Digit Classification and Recognition". **International Journal of Advanced Research in Science, Communication and Technology** (IJARSCT). 2(2):30-35. **DOI: 10.48175/IJARSCT-781**
9. **(2021)**, "Selection of Foreign Players in T20 Cricket League Using Multiple Criteria Decision Making (MCDM) Techniques". **Global Journal of Computer and Engineering Technology (GJCET)**. 1(1):19-27.
10. **(2021),** "Classification of Coronary Artery Disease Using Multilayer Perceptron Neural Network". **International Journal of Applied Evolutionary Computation, IGI Global.** 12(3):35-43. **DOI: 10.4018/IJAEC.2021070103**
11. **(2019)**, "Index Ranking and Performance Evaluation of Shanghai Stock Exchange (SSE) Using AHP and TOPSIS Method". **International Journal of Computer Sciences and Engineering (IJCSE)**. 7(3):19-23 (**UGC Approved**).
12. **(2018)**, An Integrated Three Tier Architecture of AHP-GP for Stock Portfolio Management. **International Journal of Pure and Applied Mathematics**. 118(19):115-122.(**Scopus Indexed Journal**)
13. **(2017)**, Expert Portfolio System Using Integrated MCDM-GP Approach. **Review of Business and Technology Research**. 14(2): 1-6.
14. **(2016)**, "Application of TOPSIS Method for Stock Index Ranking". Journal of Global Information Technology. 11 (1): 37-43. **(UGC Approved)**
15. **(2015)**, "AHP Method Applied for Portfolio Ranking of Various Indices and Its Year Wise Comparison". **International Journal of Research Studies in Computer Science and Engineering (IJRSCSE)**. 53-57.

BOOK CHAPTER

1. **(2021)**, "Lung Cancer Detection Using Deep Convolutional Neural Network" is published in **Springer Conference**, and published in Springer Lecture Notes in Network and System Series. (**Scopus Indexed Book**)
2. **(2021)**, "Stacked Generalization Based Ensemble Model for Classification of Coronary Artery Disease" is presented in ICIoTCT, 2021 (**Springer Conference**), IIT Patna, India and published in Springer AISC Book Series. (**Scopus Indexed Book**)
3. **(2016)**, "Comparative Analysis of AHP and Its Integrated Techniques Applied for Stock Index Ranking". Proceedings of ICACNI 2016, Advances in Intelligent System and Computing, **Springer**. 2:127-134. (**Scopus Indexed Book**)

CHAPTER IN EDITED BOOK

1. **(2021)**, "Deep Neural Network with Feature Optimization Technique for Classification of Coronary Artery Disease" is **approved** as a chapter in **edited book** entitled **"Computer Vision and Image Processing in the Deep Learning Era", IGI Global.**
2. **(2021)**, Chapter entitled "**Detection of Nodule and Lung Segmentation using Local Gobar XOR Pattern in CT Images"** in Artificial Intelligence and Machine Learning in

2d/3d Medical Image Processing, CRC Press, Taylor and Francis Group.

BOOK PUBLISHED

1. A Book named "**Application of Goal Programming (GP) in Stock Fund Diversification**" is published in LAMBERT Publication in 2021.

RESEARCH PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

1. **(2021), "Call Data Record Analysis Using Microsoft Excel,** Published in proceeding of American Institute of Management and Technology Conference Proceedings (AIMTCP), 2021.
2. **(2021),** "**Classification of Coronary Artery Disease Using Deep Neural Network with Dimension Reduction Technique**", Published in proceeding of 2021 2nd International Conference for Emerging Technology (INCET), **IEEE. DOI:** 10.1109/INCET51464.2021.9456322
3. **(2021),** "**A Robust Model for Handwritten Digit Recognition using Machine and Deep Learning Technique**". Published in proceeding of 2021 2nd International Conference for Emerging Technology (INCET), **IEEE.** 10.1109/INCET51464.2021.9456118
4. **(2020), "A Survey of Deep Learning and Machine Learning Techniques for Handwritten Digit Recognition**". Published in proceeding of International e-Conference on Artificial Intelligence, Network Secory and Data Sciences,(IeCAN-2020) ,India, **2020,** 227:234.
5. **(2021), "**An Integrated K-means-GP Approach for US Stock Fund Diversification". Published in **2020 Annual Conference proceedings, Decision Science in Age of Community**, 51st Annual Conference Of The Decision Sciences Institute. 51:1045-1050.

Participation in National/International Conferences

1. Paper presented in International Conference on Innovation in Management, Science and Technology (ICIMST 2022), organized by University of Science and Technology Meghalaya, India **2022**.
2. Paper presented in 2nd International Conference on Emerging Technology (INCET 202), **IEEE**, Bangalore, India **2021**.
3. Paper presented in International Conference on Advancement on Interdisciplinary Research, Jaipur, India, **2020**.
4. Paper presented in International e-Conference on Artificial Intelligence, Network Secory and Data Sciences,(IeCAN-2020) ,India, **2020**.
5. Paper presented in International Conference on Innovative Research in Science, Management and Technology, Bilaspur (C.G.) , **2020**.
6. Paper presented (Online) in International Conference on Globalization and Competitive- ness in Business and Technology, Orlando, Florida, **2019**.
7. Paper presented (Online) in International Conference on Emerging Issues in Business Technology and Applied Science, Bangkok, **2018**.

8. Paper presented in International Conference on Innovative Research in Science, Management and Technology, Bilaspur (C.G.), **2018**.
9. Paper presented in International Conference on Advance Computing, Networking and informatics (ICACNI 2016), **Springer**, NIT Rourkela, September **2016**.
10. Paper presented in National Conference on Innovation and Research in Science, Management and Technology, Bilaspur (C.G.), **2015**.
11. Paper presented in National Conference on Intelligent Computing and Information System, Bilaspur (C.G.), **2009.**