

Publications

Publication in SCI/SCIE Indexed journal

Layek, S. et al., "Rainfall & Seismological Dump Slope Stability Analysis on Active Mine Waste Dump Slope with UAV." *Advances in Civil Engineering* (2022):

DOI: <https://doi.org/10.1155/2022/5858400> (SCIE, Q2, IF: 1.924)

Paper Published Scopus Indexed journal

Layek, S., Singh, R.K., Villuri, V.G.K., Koner, R., Soni, A., Khare, R. (2020). 3D Reconstruction: An Emerging Prospect for Surveying. In: Ghosh, J., da Silva, I. (eds) *Applications of Geomatics in Civil Engineering*. Lecture Notes in Civil Engineering, vol 33. Springer, Singapore.

DOI: https://doi.org/10.1007/978-981-13-7067-0_5

International Conference Scopus Indexed

Dawar, I., Gupta, S. D., Singh, R., Kothari, Y., & Layek, S. (2023, May). Forest Fire Detection using Deep Learning Techniques. In *2023 2nd International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies (ViTECoN)* (pp. 1-6). IEEE. DOI: 10.1109/ViTECoN58111.2023.10157262.

M. Rana, S. Bhardwaj, I. Dawar, V. Gupta, S. Layek and M. Bhushan, "Risk Analysis for Cryptocurrency: Challenges and Future Scope," *2023 3rd International Conference on Emerging Smart Technologies and Applications (eSmarTA)*, Taiz, Yemen, 2023, pp. 1-7, doi: 10.1109/eSmarTA59349.2023.10293308.

B. Mondal, M. Bhushan, I. Dawar, M. Rana, A. Negi and S. Layek, "Crop Disease Prediction using Machine Learning and Deep Learning: An Exploratory Study," in *ICSCSS*, 2023, DOI: 10.1109/ICSCSS57650.2023.10169612.

Dawar. I. & Layek. S. et. al., "Text Categorization using Supervised Machine Learning Approach, IEEE 6th International Conference of Women in Data Science, at Prince Sultan University, IEEE", DOI 10.1109/WiDS-PSU57071.2023.00046, 14-

Book Chapter Scopus Indexed

Bhushan, M., Singal, M., Layek, S., & Negi, A. (2023). Autonomous Navigation of Rovers Using ML and DL Techniques. In S. Kautish, N. Chaubey, S. Goyal, & P. Whig (Eds.), *AI-Enabled Social Robotics in Human Care Services* (pp. 212-235). IGI Global.

DOI: <https://doi.org/10.4018/978-1-6684-8171-4.ch008>

Teaching Skills & Experience

✧ Assistant Professor

Data Science and Intelligence System

IIIT Dharwad

April 2024 – Present

✧ Assistant Professor

School of Computer Science

UPES Dehradun

Dec 2023 - April 2024

✧ Assistant Professor

School of Computing

DIT University

August 2022 – Dec 2023

Patents

✧ "Assistance Device for Visually Impaired Users", Application no: 202311019740, 2023

✧ "A System for cloudburst event forecasting using Convolutional Neural Network (CNN) and Gramian Angular Field (GAF)", Application no: 202311037799, 2023

Gate Qualification

✧ 2014 in Computer Science and Engineering

✧ 2016 in Computer Science and Engineering

