# **Faculty Profile**



Name:	Dr K Susheel Kumar	
Designation:	Senior Assistant Professor	
Teaching Areas:	Compiler Design, Data Structure, Digital Image processing, n learning	nachine
<b>Research Interests:</b>	Medical Image Processing	

### Education

- PhD (CSE) NIT Hamirpur, Himachal Pradesh, 2023
- MTech (IT) IIIT ALLAHABAD, Uttar Pradesh, 2010
- B.E (CSE), MVSR ENGINEERING COLLEGE, HYDERABAD (OSMANIA University), 2007

### **Research / Selected Publications:**

### **SCI Indexing:**

- 1. Kumar, K. Susheel, & Singh, N. P. (2022). Analysis of retinal blood vessel segmentation techniques: a systematic survey. Multimedia Tools and Applications, 1-55.
- 2. Kumar, K. Susheel., & Singh, N. P. (2022). Segmentation of retinal blood vessel using generalized extreme value probability distribution function (pdf)-based matched filter approach. Pattern Analysis and Applications, 1-26.
- Kumar, K. Susheel., & Singh, N. P. (2022). An Efficient Registration-based Approach for Retinal Blood Vessel Segmentation Using Generalized Pareto and Fatigue pdf. Medical Engineering & Physics, 103936.
- 4. Kumar, K. Susheel and Singh, N.P, (2023) Retinal Disease Prediction through Blood Vessel Segmentation and Classification Using Ensemble Based Deep Learning Approaches. Neural Computing and Applications.
- 5. Susheel Kumar, K., and Nagendra Pratap Singh(2023). "Identification of retinal diseases based on retinal blood vessel segmentation using Dagum PDF and feature-based machine learning.

## **Scopus Indexing:**

- 6. Kumar, K. Susheel., & Singh, N. P. (2022). Segmentation of retinal blood vessel structure using Birnbaum-Saunders (fatigue life) probability distribution function. International Journal of Medical Engineering and Informatics, 14(6), 484-500.
- Kumar, K. Susheel., & Singh, N. P. (2022). Retinal Blood Vessel Segmentation Using a Generalized Gamma Probability Distribution Function (PDF) of Matched Filtered. International Journal of Fuzzy System Applications (IJFSA), 11(2), 1-1
- Kumar, K. S., Yadav, S., & Pratap Singh, N. (2023). Screening Retinal Images and Extraction of the Retinal Blood Vessel for Identifying Diseases and Classification of Arteries and Veins by Using Deep Learning. Recent Advances in Electrical & Electronic Engineering (Formerly Recent Patents on Electrical & Electronic Engineering), 16(8), 790-804.