

Activity Report

The paper titled Enhancement of Retinal Image by Hybrid Approach was published in IEEE Conference organized by Amity University Dubai and Gurgaon campus held from 19 -21st Jan 2021. Due to COVID -19, the conference was held in online mode. This was a very reputed conference under the aegis of IEEE and it is indexed in SCOPUS.

The work done in this paper was a part of ongoing research in which Diabetic retinopathy (DR) was perceived as root cause of blindness among all age groups. DR if not detected at early stage can be proved fatal. So, the early detection of DR is must.

The foundation of this research paper was to enhance the retinal images which can furtherance in early detection of the disease. The enhancement methodology is framed by hybrid use of Gabor filter, median filter, and mean filter. This hybrid approach is accomplished with altered mathematical equations. The detailed workings of the adopted methods have been deeply explained in the research paper with hybrid algorithm. The PSNR, MSE, and RMSE values of proposed technique have been calculated and compared with existing methods like CLAHE and Morphological Operations.

This paper is going to make a good impact as the Scopus indexed published paper increase the scores in overall ranking of publications criteria for the institute in various NBA and NAAC accreditations.

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