PROBLEM STATEMENT

Develop a method for enhancing grayscale images by converting them into Intuitionistic Fuzzy Images (IFIs) and applying a color mapping scheme based on intuitionistic fuzzy entropy. This method aims to improve the visualization of complex or uncertain data by highlighting regions of interest and uncertainty in the images specially in x-ray images

PROJECT OBJECTIVES

our project's primary application seems to be in image enhancement and visualization using intuitionistic fuzzy logic. Converting grayscale images to IFIs and applying color mapping based on entropy can be used in various fields, such as medical imaging, remote sensing, and data visualization. It can help to reveal more information and patterns in the data.

STEPS

- ✓ Data Collection
- ✓ Initial Grayscale Images
- ✓ Transformation to IFIs
- ✓ Membership and Non-Membership Calculation
- ✓ Hesitancy Calculation
- ✓ Entropy as a Measure of Uncertainty
- ✓ Hesitancy's Role
- ✓ Edge Detection

PROJECT OUTCOMES

Vibrant Colorization

Enhanced Image Quality

Partial Membership Representation

Adaptive Color Mapping:

Performance Optimization

POWERED BY

DONE BY