BINARY IMAGE ENHANCEMENT TECHNIQUE USING PSI MODEL FOR CONTRAST IMPROVEMENT IN SPATIAL DOMAIN

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ABSTRACT

Binary Image Processing means processing of binary images by using a computer via algorithms. While acquiring images sometimes their contrast will be poor because of viewing distance, weather condition or lighting intensity. As human beings and machines can distinguish grayscale and true color images, but for some applications binary images are more useful as they need less memory space for storage and lower computational cost. Hence it is necessary to find a method which needs simple operations with effective enhancement and does not require complex operations. This paper proposes a method for binary image enhancement technique using PSI Model for contrast improvement in spatial domain. Subjective results like images and objective like mean square error are good for the proposed method.

KEYWORDS: Binary Image Processing (BIP), Image Enhancement (IE), and Parameterized Slope Intercept (PSI), Mean Square Error (MSE)