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Counterfeit Currency Detection

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Abstract: *This paper presents a programmed framework designed to identify Indian currency notes and determine whether they are genuine or counterfeit. The system is of great utility in the banking sector and other fields. India has experienced an increase in counterfeit notes of denominations such as 100, 500, and 1000 rupees, attributed to advancements in technology such as scanning, color printing, and replication. This has led to a rise in counterfeit issues. The detection of counterfeit Indian currency notes is achieved through image processing techniques. Initially, image acquisition is performed, followed by preprocessing, including cropping, smoothing, and conversion to grayscale. Subsequently, image segmentation, feature extraction, reduction, and comparison are conducted. This framework can greatly aid in distinguishing genuine and counterfeit Indian currency notes, offering a valuable tool for various sectors, particularly in addressing the rising counterfeit issues.*

Keywords: Fake bank currency, counterfeit detection money, image processing refer, specific feature

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