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# FAKE CURRENCY DETECTION USING IMAGE PROCESSING

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**Abstract** - Fake currency has always been an issue which has created a lot of problem in the market. These issues faced throughout the world in particular affecting the economy of almost every country including India. Counterfeiting money stands for the illegal copying of original currency without the legal sanction of the state or government; hence counterfeit currency is a fake currency that has not been authorized by the government. RBI is the only bank to publish currency notes in India.. In the course of recent years, because of the enormous innovative advances in shading printing, copying and examining, falsifying issues have turned out to be increasingly genuine. The rising technological advancement has made the opportunity for creating more forged currency. Producing counterfeit money is a form of fraud or forgery. Printing of Fake notes of Rs.100, 500 and 1000 exits already there but after the demonetization, the counterfeit notes of new Rs.50,200,500,2000 have also come which effects the country's economic growth. The approach consists of a number of components including image processing, edge detection, image segmentation and characteristic extraction and comparing images. The expected results will be the text and voice output of the currency documented and confirmed. The proposed system has got advantages like simplicity, high performance speed, to develop an automatic fake currency detector system which is fast and easy to use for a common man and to develop low cost system, using effective and efficient techniques, to provide accurate and reliable results at good throughput.