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Voting System using Hough Transformation

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V R Shravani ; Shruti Bhat ; B. Naga Nainika ; Reethika Tekumatla ; K. Butchi Raju **All Authors** ...



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Abstract:

This research work intends to develop a secure voting system, which uses iris recognition and Hough transformation to make sure that the voting process is safe and reliable. The main processes involved in the proposed system are, obtaining iris image as input, recognizing and authenticating the iris, and finally casting a vote. The iris image acquisition module uses a camera to capture a picture of the voter's iris. The iris recognition and authentication module compares the image of the voter's iris to the database to make sure that the voter is who they say they are. The voting module lets a voter who has already been verified vote in a safe way. Hough transformation helps make the system more secure by getting rid of any strange iris images and lowering the risk of fraud. The proposed system was tested on a set of 500 images of iris, and it worked well and was hard to trick. This system could make voting systems safer and more accurate, boost voter confidence in the voting process, and help make sure elections are fair and open.

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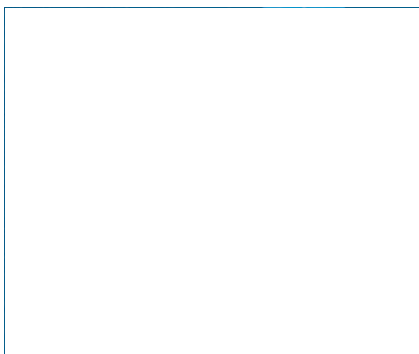


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1. Introduction

The traditional voting system, which uses paper ballots and requires people to count them by hand, is prone to mistakes, fraud, and tampering. As technology advances, creative ways to make voting better have been looked into. Biometric technology, like iris recognition, is one of the most promising solutions.

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