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ELECTRONIC VOTING SYSTEM USING MOBILE

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ABSTRACT

As we all know, the current scenario of the polling system and the way of voting during the election process. Polling disrupted by militants in J&k. 43,732 polling stations declared _sensitive'… Seeks security plan from home ministry Candidate escapes gunshots in TN.Can you imagine an electionwithout the booth capture, without firing of polling stations, clashes between parties, voting without long standing queues, without the ferry service to vote, voter friendly, with an increased voting rate.(NO,THAT WE ALL KNOW) So , here we are coming with new ideas and approaches to overcome such problems .As we all know the public use to face lots of problem during the election process and also after the election, this all lay down with a major effect on to the economic and technological growth of our country.

So here we are with new approach to overcome this all problem

and bring our nation a beauty full and peace one .Yes, that day is not far from here. Here in this, we are going to simplify the voting process. In this hi-tech era the mobile

phones attached with the iris scannerhas to be used to cast the votes. Of course this m-voting reduces the time, cost, risks. The iris recognitiontechnology will pace our thoughts with higher degree of authentication. The technology we are about toimplement is about the m-voting…that is mobile voting using biometric. Few electronics devices and theway of iris signature. We can make the polling system of election in very great full and peace full manner.And one day we will see our country a well developed and well friendly.

INTRODUCTION:

M-voting is the technique ofcasting the votes through the cell phones. Theiris scanner will check the person for thevalidity. The eye patterns will transmit to the

server. After getting the permission from server, the person can vote by sending the keys .Thism-voting can have access anywhere from theworld with the help of satellite communications

CURRENT SCENARIO:

Now a days, large troops of military and Paramilitary forces are employed for securitypurposes. It's a drain to our economy. The mainstress on EC being the protection of ballot boxesEVM. On the day of counting, higher security isneeded.

TODAY'S VOTING PRACTICE

People have to stand in lengthy queues, in hot sun, sometimes in rains. Old age persons haveto face more troubles. Remote area peoples haveto travel by boats, horses, bulls and evenelephants. These factors reduce the voting rate.Hence, the combination of mobilecommunication and the biometric techniquespaves the way for new generation of voting.Hence, we can expect ―GOOD DEMOCRACY‖

can flourish in the country.

MISSION IMPOSSIBLE:

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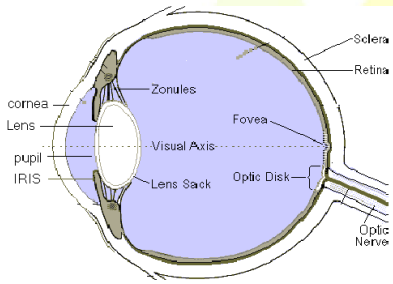
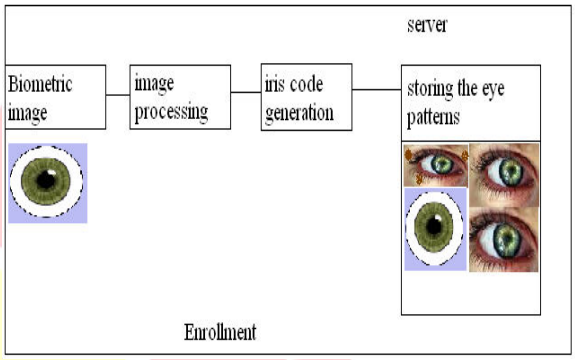
The person who is going to votehas to call to election commission office andthen he\she has to show the eye for a fraction of
second. The photographed eye will be transmitted to the office and it is processed forthe validity, authentication. And they will get aunique code based on (0-9) according to thecaptured iris .After getting the permission, theperson can vote to the desired candidate. The figure shows the location of iris in humaneye IRIS



The voting process consists of,
√ Enrollment of iris patterns.
√ Iris code scanning of individuals.
√ Verification for the validity.
√ Permission to vote.
√ Voting.
All these leads to the success of democracy.

ENROLLMENT:

On prior to the election the publichas to enroll their iris pattern with the mainserver provided by the election commission. Itmay be at the district head quarters, municipaloffice, etc. This registration can be done oncethroughout the life. The database containing theiris pattern along with the personal data will hasto be kept confidential. Here the camera takes aphotograph and generates the iris code. Thedistance between the camera and the eye can be4 to 24 inches. This stage alone needs the humanwork.



BIOMETRICS:

Biometrics technologies are defined as automated method of identifying orauthenticating the identity of a person based onphysiological or behavioral characteristics. Physiological characteristics are more stablecharacteristics such as,

- Face recognition
- Finger print recognition
- Iris recognition
- DNA recognition
- Behavioral characteristics is the reflection of make up
- Signatures
- Voices

IRIS SCANNING:

The person who is going to votehas to send the number provided by EC via textmessage , with the help of iris scanner theserver system scans the unique code which hasbeen sent by each individual and verify it for thepurpose of validation and authentication.

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A low-level incandescent light illuminates theiris so the video camera can focus on it, but thelight is barely noticeable and used strictly toassist camera. One of the frames is then digitizedthen transmitted and stored in a pc database ofenrolled users. The whole procedure takes lessthan a few seconds, and can be fullycomputerized. Scanning is actually performedsince the eye is simply photographed.

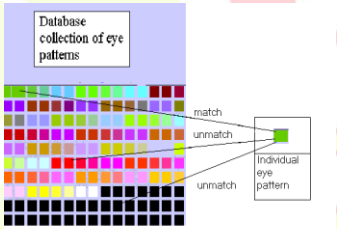
ABOUT IRIS:

An iris has a mesh-like texture to it, with numerous overlays and patterns that can measured by the computer. The iris recognitionsoftware uses about 260 degrees of freedom. Why Iris recognition?Glasses and contact lenses, even coloredones, do not interfere with the process. In addition, recent medical advances such asrefractive surgery; cataract surgery and corneatransplants do not change the irischaracteristics. In fact, it is impossible to modifythe iris without risking blindness. Moreover, even a blind person can participate. As long as asightless eye has an iris, that eyecan be identified by iris recognition. Even thebest fingerprint technology uses about 60 to 70degrees of freedom.

IRIS CODE GENERATION:

The picture of an eye is first processedby software that localizes the inner and outer
boundaries of the iris, and the eyelid contours, inorder to extract just the iris portion. Eyelashes and reflections that may cover parts ofthe iris are detected and discounted. Sophisticated mathematical software thenencodes the iris pattern by a process calledDemodulation.This creates a phase code for the texturesequence in the iris, similar to a DNA sequencecode.The Demodulation process uses functions called2-D wavelets that make a very compact yetcomplete description of the iris pattern,regardless of its size and pupil dilation, in just512 bytes. The stored file is only 512 bytes with aresolution of 640*480, allowing for massivestorage on a computer's hard drive. The phase sequence is called an iriscode template, and it captures the uniquefeatures of a iris in a robust way that allows easyand very rapid comparisons against largedatabases of other templates. The Iris codetemplate is immediately encrypted to eliminatethe possibility of identity theft and to maximizesecurity.

VERIFICATION:



One to many comparisonIn less than a few seconds, even on adatabase of millions of records, the Iris codetemplate generated from a live image iscompared to previously enrolled ones to see if itmatches any of them. The decision threshold is automatically adjustedfor the size of the search database to ensure thatno false matches occur even when huge numbers
of Iris code templates are being compared withthe live one. Some of the bits in an Iris codetemplate signify if some data is corrupted(For example by reflections, or contact lensboundaries), so that it does not influence theprocess, and only valid data is compared. Decision thresholds take account of the amountof visible iris data, and the matching operationcompensates for any tilt of the iris.

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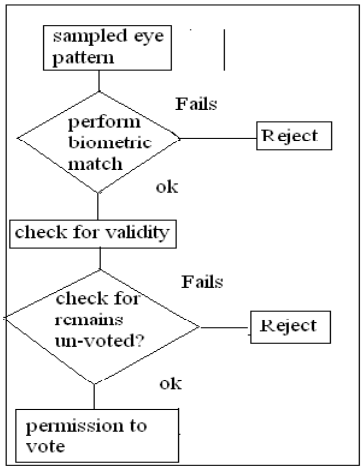
PERMISSION:

The server provided at the pollingstation will verify the iris code with the databaseand then it verifies whether they had already
voted. If they are eligible to vote, the server permitsthem to vote through their cell phone ,else request them to register once for throughoutlifetime.



VOTING:

The success of democracy lies here.After getting the permission from the EC server
the person can vote from his mobile. Once thecode get verified ,the server will send the pollingscreen via message direct to the mobile. This willmake so portable to everyone .Hence theresulting in increase rate of vote shows thegrowth in technology and economic of our country. The prerecorded message will help toselect the candidate with right choice and alsogive acknowledgement.

BENEFITS:

- Time saving.
- Patterns are extremely complex to makea duplicate.
- Imitation is not possible .Pattern cannotbe changed with risking the eye.
- Election mal practices can be stopped.
- Enable secured voting anywhere fromthe world.
- Further,this can be used for citizenship rights, border-crossing permissions, passports, and evenfor ATM services.

CONCLUSION:

We have presented a newer approach to
the voting process, which will surely brings achange. We can reach the dream day, the
peaceful election in which everyone can participate without any discrimination, threats,and risks. Dream day is nearer….

REFERENCE:

1. ELECTRONICS FOR YOU
2. www.google.com