

**ACADEMIC YEAR 2015-2016**

# **RANDOM PATTERN SECURITY IN AUTOMATIC TELLER MACHINE**

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The present ATM system uses Bank ATM card and PIN (Personal Identification Number). According to latest scenario ATM fraud is a very grave problem for banks. Now a day's security system used in ATMs is completely based on PIN security system which is vulnerable. This PIN can be easily guessed by various attacks like shoulder surfing attack etc. To overcome this problem in the ATM security we proposed a new technique. The main objective of the proposed technique RANDOM PATTERN SECURITY IN ATM is to provide security by choosing pin number randomly based upon the pattern. In the proposed a one-time pin is generated for the same pattern location using pattern matching. As a result of the work proposed there will be benefit to human beings for the purpose of ATM security.

# **SECURE RANKED DATA SEARCH IN CLOUD USING ONE-TO-MANY OPE**

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In cloud encryption on sensitive data presents obstacles to the processing of the data. Information retrieval becomes difficult in the encrypted domain as the user needs to download all the data, decrypt it all and then search keywords like plain text retrieval. To overcome this, Searchable Encryption (SE) is used to make querying in the encrypted domain possible. Order Preserving Encryption (OPE) is used to support fast ranked search in encrypted data. Here, we use probabilistic OPE, called One-To-Many OPE where the plaintext is encrypted into multiple cipher text by which we can flatten the distribution of plain text. By processing this method, the server gains no knowledge about the plain text. Hence, high security is preserved for the files uploaded on cloud.

# **DETECTING OIL SPILLS THROUGH HIGH RESOLUTION SATELLITE IMAGES**

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This project demonstrates the capabilities of single panchromatic satellite images on detecting oil spills and underwater natural oil outflows in oil potential areas. The new approach considers the symmetric nature of the circular oil depots, and it computes the radial symmetry in a unique way. We propose an automated thresholding method to focus on oil outflows regions and a new measure, oil support ratio, to verify detected oil outflows. Experiments are performed on GeoEye-1 test scenes, and the results reveal that the new approach is capable of detecting oil outflow with high success. The performance of our approach is also compared with leading techniques from the literature and has provided comparable or superior results. An object based method for oil spill detection using high or very high multispectral images has been developed. The method exploits the knowledge provided by the systematic photo-interpretation of the temporal, spectral and spatial features of the high or very high resolution multispectral datasets. The developed method has been proved to work well in very high resolution satellite images such as IKONOS, Quick Bird, Rapid Eye, and WorldView2, as well as high resolution satellite images. When repeatedly applied on sequential multispectral imagery, the developed method can reveal potential natural underwater oil outflows.

# **TRANSMISSION AID FOR HEARING AND VOCALLY IMPAIRED**

113112104018 DILLI BABU G

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Communication between normal persons, deaf-mute and hard of hearing will be a problem, as deaf-mute use different language in their conversation. The Sign Languages are used here, which were generally used by the deaf people in their conversation. Here the Speech-to-Sign and Sign-to-Speech technology are implemented. Initially, the Sign language is typed by the deaf person on one end of communication side and which is later converted into speech on other end of communication side. This is achieved with Video Relay Service (VRS - enables audible language translation on smart phones with signing) technologies which can convert the sign language into speech. When the speech signal is received as the response then it will be converted into sign language. By using this application deaf person can easily interact with normal person anywhere, and he can also use this application for mobile sign translation using VRS. Also using UTF-7 he can communicate in daily activates without dialing number. We combine variety of technologies (JSON, VRS) which is integrated into single part and thus it enables an easy way for specially a bled people to communicate with other people in a normal way of role.

# **DISTRIBUTED M-HEALTHCARE CLOUD COMPUTING SYSTEM BASED ON AUTHENTICATION OF AADHAAR CARD**

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In this project is used to the Health care monitoring system. Distributed Healthcare cloud computing system significantly facilitates efficient patient treatment for medical consultation by sharing personal health information among healthcare providers. However it brings about the challenge of keeping both the data confidentiality and patients identity privacy simultaneously. Many existing access control and anonymous authentication schemes cannot be straightforwardly exploited. The system roles there are provider, doctor, patient and admin. The provider is register to website to permission waiting to request send to admin. Admin is provided to in a particular provider it acts to the perform add to doctors and hospital branches established. User or Patient is register to the site. Patient Login to perform the action booking the doctor appointment in situation patient to send a feedback to which doctor treatment comments forward to admin. Doctors is add provider to send a username and password .Doctor is login to view patient appointment details and checking the doctor is current patient or fake user to identified to send to symptoms description upload files(x-ray).Admin is overall process is maintained in this system. Patient send doctors feedback bad or wrong to particular doctors appointment canceled temporally. In this project mainly used for patient and hospital, doctors details through online maintained for INDIA wise based on adhar card.