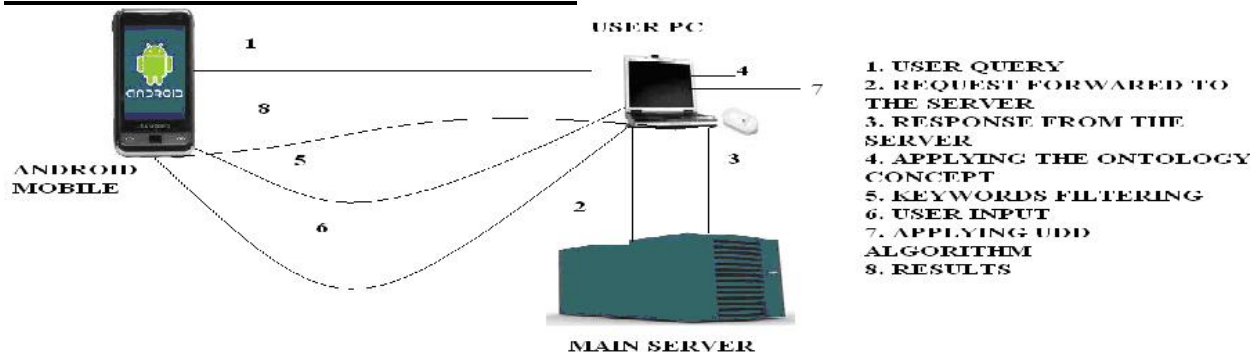## NEW PROJECTS ON DOTNET

IEEE PROJECTS 2012

DN 10001 (JA 6003). ANDROID BASED EFFECTIVE AND EFFICIENT SEARCH ENGINE RETRIEVAL SYSTEM USING ONTOLOGY

ARCHITECTURE DIAGRAM

1. USER QUERY
2. REQUEST FORWARDED TO THE SERVER
3. RESPONSE FROM THE SERVER
4. APPLYING THE ONTOLOGY CONCEPT
5. KEYWORDS FILTERING
6. USER INPUT
7. APPLYING UDD ALGORITHM
8. RESULTS

DESCRIPTION : In the **EXISTING SYSTEM**, A major problem in mobile search is that the interactions between the users and search engines are limited by the small form factors of the mobile devices. In the **PROPOSED MODEL**, users search's on the when for query, either Area specified (or) user's location, server retrieves all the information to the user's PC where ontology us applied. User PC displays all the relevant keywords to the user's mobile, so that user selects the exact requirement. Ranking occurs and finally exactly mapped information is produced to the user's mobile. In the **MODIFICATION**, We apply UDD algorithm to eliminate the duplication of records which helps to minimize the number of URL listed to the user.

DOMAIN: Mobile Computing, Android, Data Mining

ISO / IEC 20000 CERTIFIED	BHARTIYA UDYOG RATAN - AWARDED	BITS PILANI PRACTICE SCHOOL	ISO 9001 : 2008 CERTIFIED

Page 1 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: **IEEE Transactions** on Knowledge and Data Engineering, 2012

DN 10002 (JA 6001). ASSURING SECURED & DEPENDABLE CLOUD STORAGE SERVICES WITH ERASURE CODE TECHNIQUE

ARCHITECTURE DIAGRAM
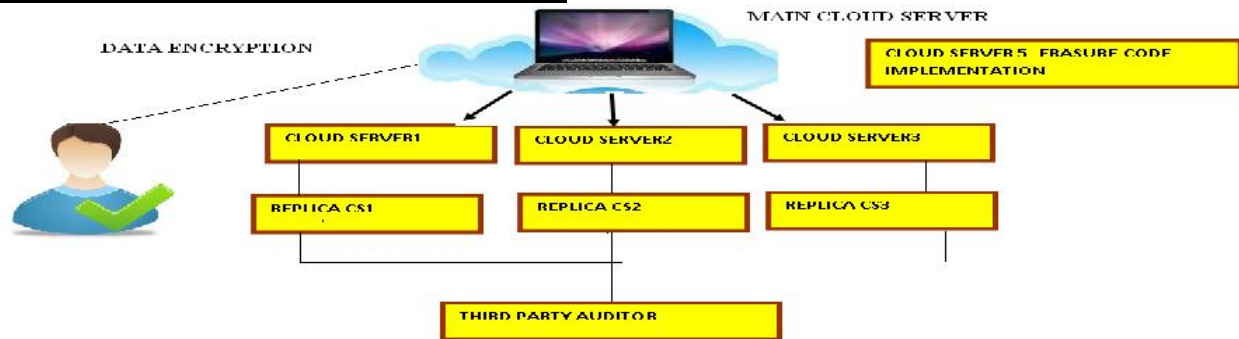
DESCRIPTION : In the **EXISTING SYSTEM**, there is no big security provided in the Cloud server for data safety. If at all security exists, the third party auditor should be allowed to access the entire data packets for verification. In the **PROPOSED SYSTEM**, Cloud server spilt the file into batches and allowed for encryption. The corresponding encrypted batches are kept in different Cloud servers and their keys are distributed in different key server. These encrypted batches are kept in replica servers as a backup. This encrypted data are converted into bytes and added parity bit process by the data owner in order to restrict TPA by accessing the original data. The Cloud server generates the token number from the parity added encrypted data and compared with the signature provided to the TPA to verify the Data Integrity. We also implement Erasure Code for the back-up of the data. The **MODIFICATION** that we propose is the encryption process of the data by the data owner before it reaches the Cloud server.

DOMAIN: Cloud Computing, Security

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: IEEE TRANSACTIONS on Service Computing, 2012

DN 10003 (JA 6002). IDENTIFICATION, DETECTION AND REMOVAL OF INTRUSION ATTACKS IN MULTITIER WEB APPLICATIONS

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, Due to their ubiquitous use for personal and/or corporate data, web services have always been the target of attacks. These attacks have recently become more diverse, as attention has shifted from attacking the front end to exploiting vulnerabilities of the web applications. Intrusion Detection Systems (IDSs) currently examine network packets individually within both the web server and the database system. Unfortunately, though they are protected from direct remote attacks, the back-end systems are susceptible to attacks that use web requests as a means to exploit the back end.. In the **PROPOSED SYSTEM**, Double Guard mechanism contains a container module at the primary level then to the web services application at the secondary level and finally Database is connected. SQL Injection Initially verified by the container only then the request is followed to the web server for the next authentication of User Name, Password, Privileges, request forwarding Mechanism only the user is allowed to access the web service. In **MODIFICATION** if the user enter the username or password incorrectly for more than 3 times, the secondary key is provided to the user during the user phase is verified. Also Spoofing of IP address is also verified by container module.

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DOMAIN: **Network Security**

IEEE REFERENCE: **IEEE Transactions** on Dependable and Secure Computing, 2012

DN 10004 (JA 6007). EFFECTIVE RE-RANKING WITH ORGANIZING USER HISTORY, FEEDBACK AND ELIMINATION OF DUPLICATE RECORDS

ARCHITECTURE DIAGRAM

Time	Query	Time	Query
10:51:48	saturn vue	12:59:12	saturn dealers
10:52:24	hybrid saturn vue	13:03:34	saturn hybrid review
10:59:28	snorkeling	16:34:09	bank of america
11:12:04	barbados hotel	17:52:49	caribbean cruise
11:17:23	sprint slider phone	19:22:13	gamestop discount
11:21:02	toys r us wii	19:25:49	used games wii
11:40:27	best buy wii console	19:50:12	tripadvisor barbados
12:32:42	financial statement	20:11:56	expedia
12:22:22	wii gamestop	20:44:01	sprint latest model cell phones

(a) User's Search History

Group 1	Group 2	Group 3	Group 5
saturn vue	snorkeling	sprint slider phone	toys r us wii
hybrid saturn vue	barbados hotel	sprint latest model cell phones	best buy wii console
saturn dealers	caribbean cruise	**Group 4**	wii gamestop
saturn hybrid review	tripadvisor barbados	financial statement	gamestop discount
	expedia	bank of america	used games wii

(b) Query Groups

DESCRIPTION : In the **EXISTING SYSTEM**, users query request is Handled and resultant URLs are provided based on the user's hits into a URL. The searching process happens based on the Exact keyword matched in the metatag in the Corresponding URLs. In the **PROPOSED SYSTEM**, we're organizing the user's search history by categorizing the keywords, synonyms or same meaning words into same category and also we monitor, user's selection of the URLs for the corresponding queries. We segregate the same pattern of queries from different users and compare the entire selection URLs. This process helps to Re-Rank the most often selected URLs by different user's to a new users who googles the same queries. The **MODIFICATION** we propose is getting the feedback from the users about the corresponding URLs which helps to Re-Rank resultant URLs in a more perfect manner. We Calculate the Positive feedback ratio to judge real best URL at the top of the site.

DOMAIN:. **Data Mining**

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10005 (JA 6004). M – GUARDIAN: ANDROID BASED ELDERLY PEOPLE ACTIVITY AND HEALTH MONITORING USING CLOUD COMPUTING

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM,** there should be some Care Taker along with the Patient who personally monitor the Age Old Patients. In the **PROPOSED SYSTEM**, Smart home is regarded as an independent healthy living for elderly person. Advances in phone technology and new style of computing paradigm (i.e., cloud computing) permits real time acquisition, processing, and tracking of activities in smart home. In this paper, we develop android smart phone application to assists elderly people for independent living in their own homes. Smart phone application communicates with cloud through web server and assists the elderly person to complete their daily life activities. This is used to Track the Patient's Activity

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 5 of 56

**77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823**

along with the Remainders of Medicines, Food and other Activities. **MODIFICATION** that we propose is to monitor the Heart Beat of the Patient to find the normal functionality of the Patient along with IR based Tracking Solution at every room.

DOMAIN: Cloud Computing, Android, Embedded

IEEE REFERENCE: IEEE Paper on ICACT, 2012

DN 10006 (JA 6055). PROACTIVE ACCIDENT AVOIDANCE SYSTEM USING DRIVER AND VEHICLE BEHAVIOURAL ANALYSIS PATTERN

ARCHITECTURE DIAGRAM
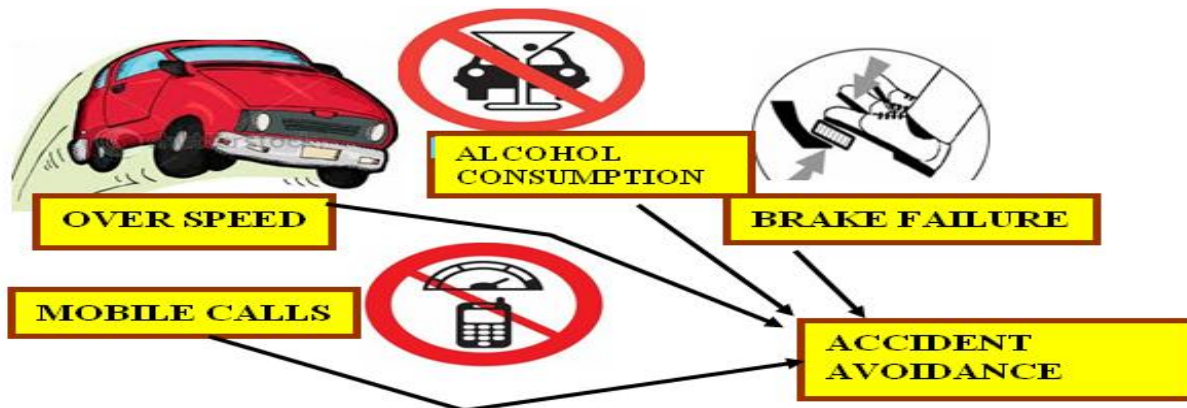
DESCRIPTION : In this paper, a novel accident Avoidance system for the identification of the main human factors involved on traffic accidents is presented. In this system, of implementation, we are Proposing, Dynamic Accident Avoidance System. We include Alcohol Sensor to identify the Driver's Alcohol Consuming status along with Mobile Calls monitoring system to automatic Braking System to control the Speed of the Vehicle when the Drier gets the Calls. We also include Speed control Mechanism to avoid Accidents due to Over Speed.

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823
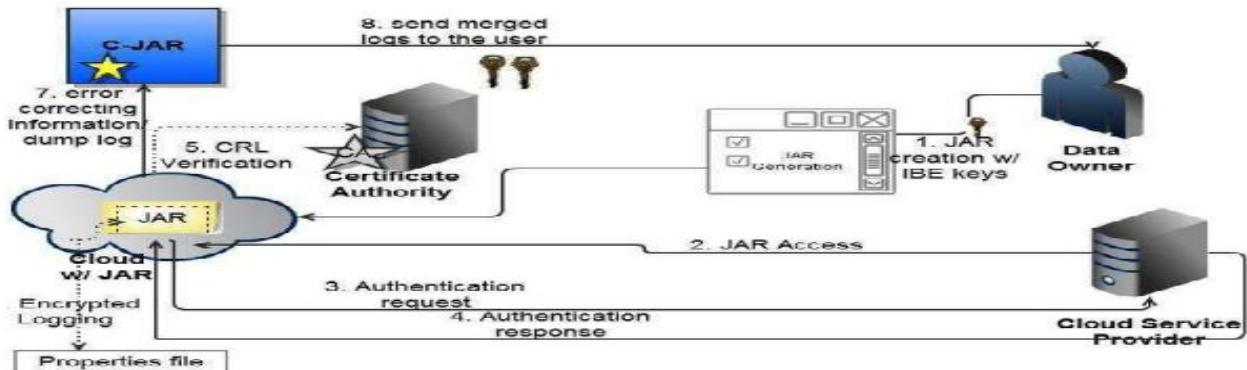
DOMAIN: **Mobile Computing, Embedded**

IEEE REFERENCE: IEEE Paper on Intelligent Vehicles, 2012

DN 10007 (JA 6014). SECURED DATA SHARING WITH ACCESS PRIVILEGE POLICIES AND DISTRIBUTED ACCOUNTABILITY IN CLOUD COMPUTING

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, A major feature of the cloud services is that users' data are usually processed remotely in unknown machines that users do not own or operate. While enjoying the convenience brought by Cloud Computing, users' fears of losing control of their own data (particularly, financial and health data) can become a significant barrier to the wide adoption of cloud services. In the **PROPOSED SYSTEM**, Data Owner can upload the data into cloud server after encryption. User can subscribe into the cloud server with certain access policies such Read, Write and Copy of the Original Data. Logger and Log Harmonizer will a track of the access logs and reports to the Data Owner. This Access ensures Security. In the **MODIFICATION**, Automatic reporting of illegal action performance of any user to the data

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 7 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

owner, as well as data owner would generate the random numbers set for the every user. So if the user entering into the account has to provide random number set, that will be verified by server.

DOMAIN: Cloud Computing, Security

IEEE REFERENCE: IEEE Transactions on Dependable and Secure Computing, 2012

DN 10008 (JA 6018). DETECTION AND FILTERING SPAMS WITH CONTENT, EXTENSION AND ACTIVITY MONITORING

ARCHITECTURE DIAGRAM

SERVER

MAIL SENDER
1. SPAM WORDS
2. FILES WITHOUT EXTENSION
3. VIRUS / WORM FILES
4. EXE / BAT FILES
5. TERM FREQUENCY
6. FILE CONTENT

NORMAL E MAIL

MAIL RECEIVER

SPAM MAIL DISCARDED

DESCRIPTION : In the **EXISTING SYSTEM**, A major security challenge on the Internet is the existence of the large number of compromised machines. Such machines have been increasingly used to launch various security attacks including spamming and spreading malware, DDoS, and identity theft. In the **PROPOSED SYSTEM**, SPOT protocol is designed for the effective detection and filtering of spam emails. We propose to indentify the spam messages at the sender end itself and not allowing the message to reach the receiver. We attain the effective process via filtering the spam words, term frequency of repeated words, virus and worm files. In the **MODIFICATION**, We're also filtering the files without the extension as an

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 8 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

attachment and compressed formats like Zip, Rar and Exec files are also eliminated and indentified as spam's and those data are filtered in the sender part itself.

DOMAIN: **Network Security**

IEEE REFERENCE: **IEEE Transactions** on Dependable and Secure Computing, 2012

DN 10009 (JA 6022). A MACHINE BASED ANALYTIC APPROACH WITH SVM CLASSIFIER FOR FILTERING MOVIE AND PRODUCT QUALITY USING ANDROID SMART PHONE

ARCHITECTURE DIAGRAM
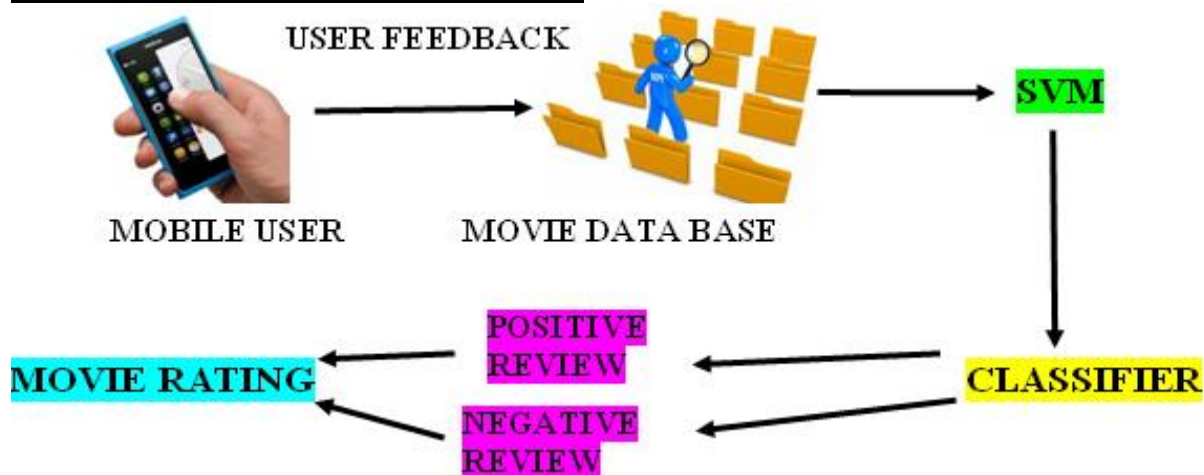
DESCRIPTION : In **EXISTING SYSTEM**, computer based movie rating process happens, that too no proper rating is happening. In the **PROPOSED SYSTEM**, we use the Android based user feedbacks are about only movie is obtained using SVM technique and

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

feature based extraction method. User can select the feature and can provide positive and negative feedback. We use steaming algorithm to extract the proper feedback. In the **MODIFICATION**, User id is provided by verifying the mobile number, so it can avoid same user's re-feedback provision. We also provide same implementation for product review also.

DOMAIN: **Mobile Computing, Android, Data Mining**

IEEE REFERENCE: **IEEE Transactions** on Systems, Man, and Cybernetics, 2012

DN 10010 (JA 6008). NFC BASED TELEMONITORING OF HUMAN VITAL PARAMETERS WITH EMERGING SERVE

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, Age old People or sick people has to be monitored by Doctors manual or requires Guardian's help to monitor their health. In the **PROPOSED MODEL**, Providing elderly people with a mobile-phone based patient terminal

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

with NFC for Authentication and communication links to sensor devices. IF any abnormality is identified immediately supports are provided to save the life of the Patient. **MODIFICATION** that we Propose is that the Generation of Automatic Alert SMS to the Patient's Guardian in case of emergency

DOMAIN: **Mobile Computing, Security, Embedded**

IEEE REFERENCE: IEEE TRANSACTIONS on Information Technology in Biomedicine, 2012
DN 10011 (JA 6015). DATA HIDING AND SECURED DATA STORAGE WITH ACCESS CONTROL TOWARDS MULTIPARTY PROTOCOLS

ARCHITECTURE DIAGRAM

Name	Sex	Nation	Salary
q1	F	England	>40K
q2	M	Canada	≤40K
q3	M	USA	≤40K
q4	F	Peru	≤40K

T_σ

Name	Sex	Nation	Salary
q5	M	Canada	>40K
q6	M	USA	>40K
q7	F	Brazil	>40K
q8	F	Italy	≤40K

Name	Sex	Nation	Salary
q1	F	*	>40K
q2	M	*	≤40K
q3	M	*	≤40K
q4	F	*	≤40K

T_σ^*

Name	Sex	Nation	Salary
q5	M	*	>40K
q6	M	*	>40K
q7	F	*	>40K
q8	F	*	≤40K

Name	Sex	Nation	Salary
q1	F	EU	>40K
q2	M	AM	≤40K
q3	M	AM	≤40K
q4	F	AM	≤40K
q5	M	AM	>40K
q6	M	AM	>40K
q7	F	AM	>40K
q8	F	EU	≤40K

DESCRIPTION : In the **EXISTING SYSTEM**, there is no Security Scheme operated for Data Storage Services between Multi Party protocols. In the **PROPOSED SYSTEM**, a look-ahead approach, specifically for secure multiparty protocols to achieve distributed k-anonymity, which helps parties to decide if the utility benefit from the protocol is within an acceptable range before initiating the protocol. The look-ahead operation is highly localized and its accuracy

**77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823**

depends on the amount of information the parties are willing to share. The system deals with Generalization approach, with hiding the Employment Department with a common Identify along with hiding the Exact Salary, Suppression Approach Hiding User Name along with their Country Identity. In the **MODIFICATION**, a Authentication Key is Generated before a user change / update the data for Verification. Entire Data is encrypted to ensure Security.

DOMAIN: Data Mining, Security

IEEE REFERENCE: IEEE Transactions on Knowledge and Data Engineering, 2012

DN 10012 (JA 6010). AUTONOMOUS SPECTRUM HANDOFF FRAMEWORK IN ADHOC NETWORK WITH DYNAMIC LOAD BALANCING

ARCHITECTURE DIAGRAM
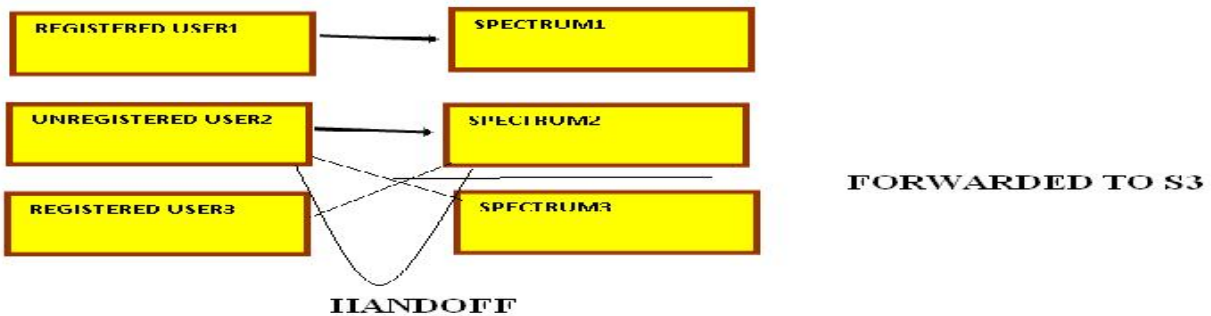
DESCRIPTION : In the **EXISTING SYSTEM**, Although the Cognitive Radio (CR) technology is a promising solution to enhance the spectrum, only it provides sufficient support to the licensed users or primary users and not to the Unlicensed Users. In the **PROPOSED MODEL**, a proactive spectrum handoff framework for CR ad hoc networks, ProSpect, is proposed to address these concerns. In the proposed framework, Channel-Switching (CW)

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

policies and a proactive spectrum handoff protocol are proposed to let unlicensed users vacate a channel before a licensed user utilizes it to avoid unwanted interference. Network coordination schemes for unlicensed users are also incorporated into the spectrum handoff protocol design. In the **MODIFICATION** that we propose is a unlicensed user is handled by the spectrum and receives the request from the licensed user, the system automatically transfer the unlicensed user into another spectrum which reduces load and the waiting time for particular unlicensed user.

DOMAIN:. **Mobile Computing**

IEEE REFERENCE: IEEE TRANSACTIONS on Mobile Computing, 2012
DN 10013 (JA 6012). EFFECTIVE COLLABORTIVE FILTERING OF RECOMMENDATION SERVICES BASED ON OPEN AUTHORIZATION WITH SMS ALERT

ARCHITECTURE DIAGRAM
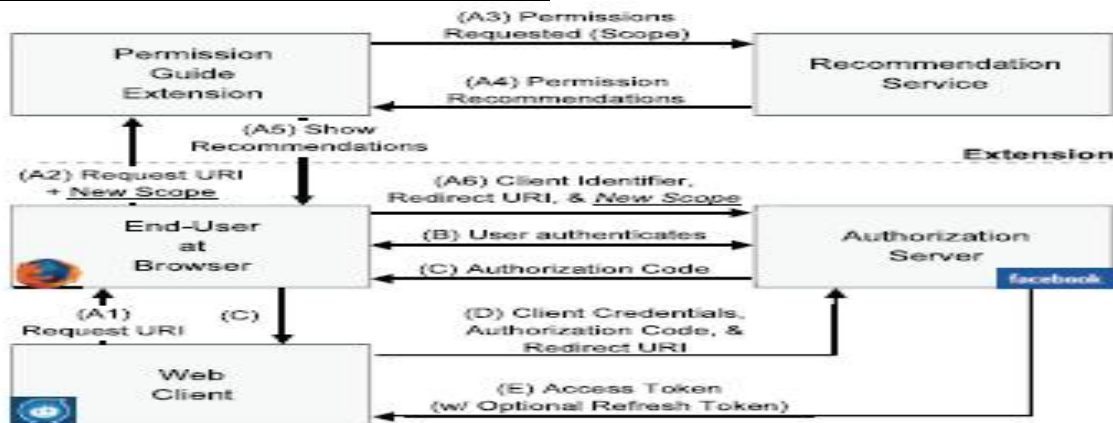
DESCRIPTION : In the **EXISTING SYSTEM**, Major online platforms such as Facebook, Google, and Twitter allow third-party applications access without User's

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

Authorization. But, Such accesses must be authorized by users at installation time. In the **PROPOSED SYSTEM** a multi criteria recommendation model that utilizes application-based, user-based, and category-based collaborative filtering mechanisms. Our collaborative filtering mechanism is effective by getting the authorization of the privileges from the user to access their database by the Third Party Applications via Recommendation Service and Permission Guide. Token number based Authentication process is used to verify the Third Party Applications. The **MODIFICATION** that we propose is to send the token number via Mobile SMS alert.

DOMAIN:. **Web Security**

IEEE REFERENCE: IEEE TRANSACTIONS on Dependable and Secure Computing, 2012

DN 10014 (JA 6070). DEVELOPMENT OF SECURED KEY WORD SEARCH AND RETRIEVAL OF BEST RANKED ENCRYPTED DATA IN CLOUD ENVIRONMENT

ARCHITECTURE DIAGRAM
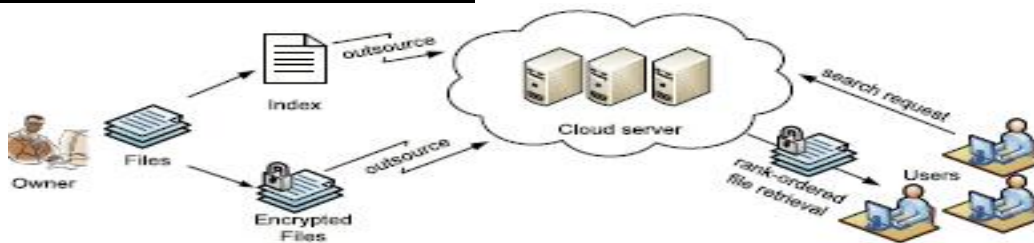
DESCRIPTION : Cloud computing economically enables the paradigm of data service outsourcing. However, to protect data privacy, sensitive cloud data have to be encrypted before outsourced to the commercial public cloud, which makes effective data utilization service a very challenging task. Although traditional searchable encryption techniques allow users to securely search over encrypted data through keywords, they support only Boolean search and are not yet

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 14 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

sufficient to meet the effective data utilization need that is inherently demanded by large number of users and huge amount of data files in cloud. In this paper, we define and solve the problem of secure ranked keyword search over encrypted cloud data. Ranked search greatly enhances system usability by enabling search result relevance ranking instead of sending undifferentiated results, and further ensures the file retrieval accuracy. Specifically, we explore the statistical measure approach, i.e., relevance score, from information retrieval to build a secure searchable index, and develop a one-to-many order-preserving mapping technique to properly protect those sensitive score information. The resulting design is able to facilitate efficient server-side ranking without losing keyword privacy.

DOMAIN: Cloud Computing, Security, Data Mining

IEEE REFERENCE: IEEE Transactions on Parallel and Distributed Systems, 2012

DN 10015 (JA 6009). IDENTIFICATION OF MALICIOUS PACKET LOSS DURING ROUTING MISBEHAVIOUR IN DISRUPTION TOLERENT NETWORK

ARCHITECTURE DIAGRAM
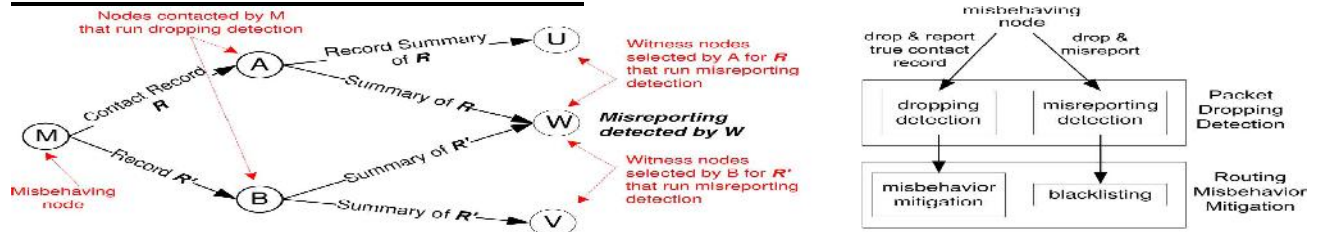
(a) PACKET DROPPING DETECTING MISBEHAVING NODE M REPORTS TWO FORGED CONTACT RECORDS R AND R^ WHICH ARE IN CONSISTENT.
(b) MISBEHAVIOR MITIGATION

DESCRIPTION : In **EXISTING SYSTEM** Disruption tolerant networks (DTNs), selfish or malicious nodes may drop received packets. Such routing misbehavior reduces the packet delivery ratio and wastes system resources. In the **PROPOSED SYSTEM** distributed scheme to detect packet dropping in DTNs. In our scheme, DTN is required to keep a few signed contact records with mobile nodes. This Previous Records is utilized to verify the trustworthiness of DTN. For every mobile node Records Handler is maintained to track the incoming and outgoing Records of it. Witness Node will identify real misbehavioring node by comparing the Records Handler and DTN In the **MODIFICATION**, we're differentiating genuine traffic packet loss with malicious packet loss by comparing the Buffer level of every nodes, We encrypt the data packets for security.

DOMAIN: Network Security

IEEE REFERENCE: IEEE TRANSACTIONS on Information Forensics and Security, 2012

DN 10016 (JA 6013). EFFICIENT, DISTRIBUTED PEER TO PEER INTERACTIVE VOD STREAMING USING CHUNKING MECHANISM

ARCHITECTURE DIAGRAM

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 16 of 56

**77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823**
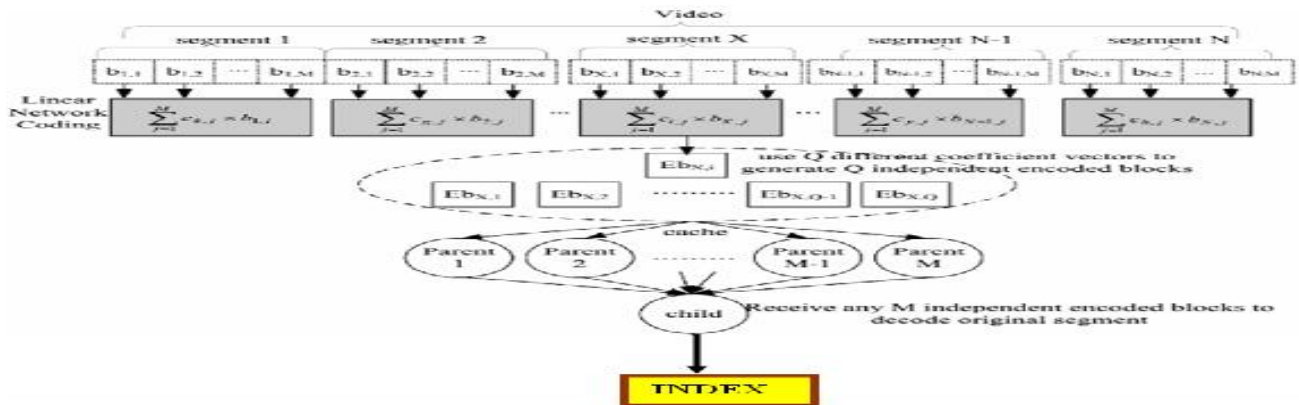
DESCRIPTION : In the **EXISTING SYSTEM**, the movie which we've requested will have to stream completely only then user can see the Movie. Even if the user clicks on the middle of the movie, the entire streaming should happen only user's request is accepted. In the **PROPOSED MODEL**, the entire movie is splitted into three to four segments and kept in different peers. Then, these segments are divided into batches then encoded with Co-efficient value correspondingly. We finally Concordinate all the Co-efficient values of different segments to form a Vector which is stored in a single Child. The Index information of all the videos are maintained in the child, which handles the query from the user. **MODIFICATION** that we propose is to maintain a replica server for all the peers in order to transmit the corresponding segments, if the peer disconnected.

DOMAIN: Networking

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10017 (JA 6040). AUTONOMOUS BEST ROUTE IDENTIFICATION WITH CAPACITY, TIME AND HOP COUNT MEASURES USING GAUSSIAN ALGORITHM
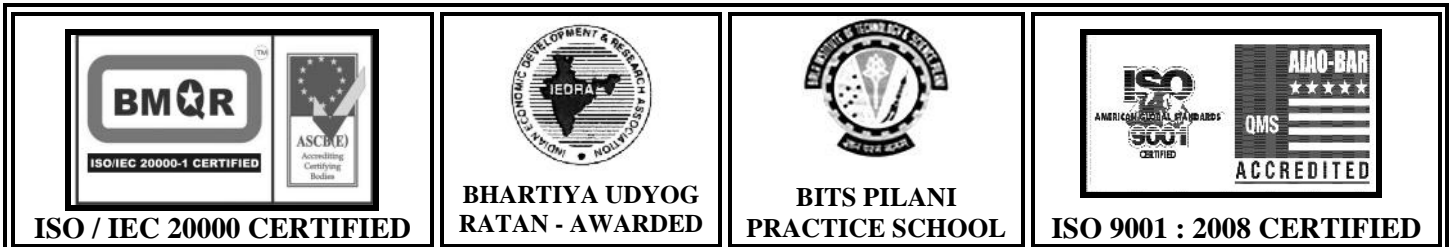
ARCHITECTURE DIAGRAM
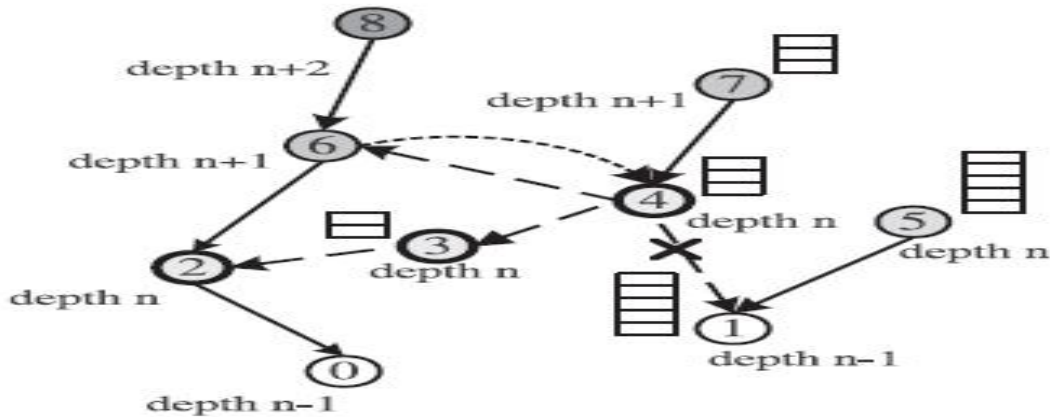
DESCRIPTION : In **EXISTING SYSTEM,** Breadth First and Greedy Algorithm is used to send the data by finding the nearest node with fixed time rate. In the **PROPOSED SYSTEM** the Gaussian Channel, which verifies the bandwidth and distance so as to deliver the packets safely to the destination, but if the route fails, it will send the packets via high time consuming route. It supports long distance of data delivery. In the **MODIFICATION**, We also calculate the nodes trustworthiness with respect to the previous experience and history of the nodes.

DOMAIN: Networking

IEEE REFERENCE: **IEEE Transactions** on Parallel and Distributed Systems, 2012

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DN 10018 (JA 6020). EFFECTIVE UNMANNED, AUTOMATIC ROBOT CONTROL SYSTEM FOR EDUCATIONAL SOCIAL CAUSE – LIBRARY SYSTEM

ARCHITECTURE DIAGRAM
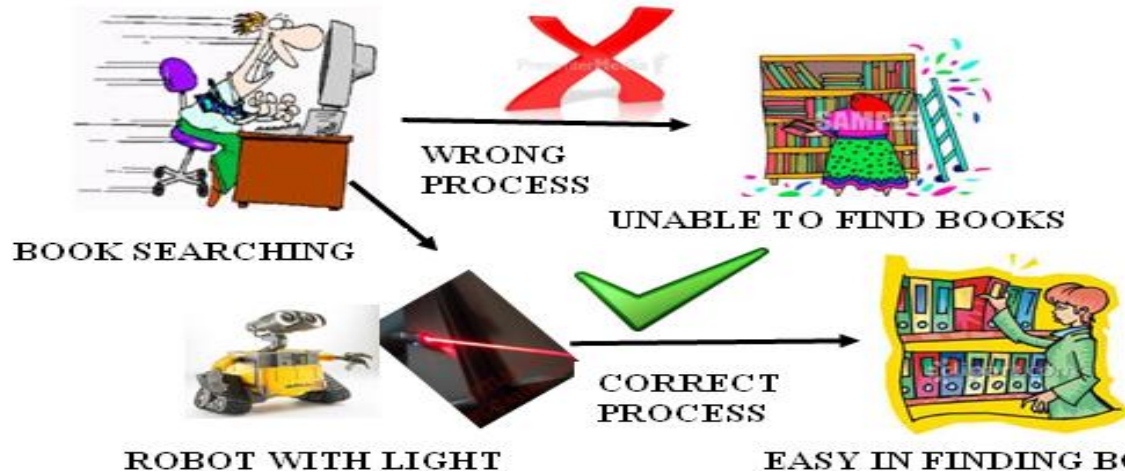
DESCRIPTION : In many **EXISTING SYSTEMS,** only manual process identification of relevant data is maintained. Even in library we search the books in a manual way only. In the **PROPOSED SYSTEM**, the user provides speech input to the Robot via wireless connection with the PC, so that the Robot directs the person with respect data fed in the PC using its arms. IR is used for person Identification. In the **MODIFICATION** that we propose is, once the user provides the voice input, the system will verify all the available books, and finds out the best book by comparing Input term frequency with total number of keywords extracted using Stemming Algorithm. So that resultant book shelf is identified by the Robot.

DOMAIN: **Mobile Computing, Data Mining, Embedded**

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: **IEEE Transactions** on Systems, Man, and Cybernetics, 2012

DN 10019 (JA 6025). DYNAMIC PROCESS ALLOCATION WITH LOAD BALANCING USING ROUND ROBIN FOR HIGH PERFORMANCE CONNECTIVITY WITH P2P STREAMING

ARCHITECTURE DIAGRAM
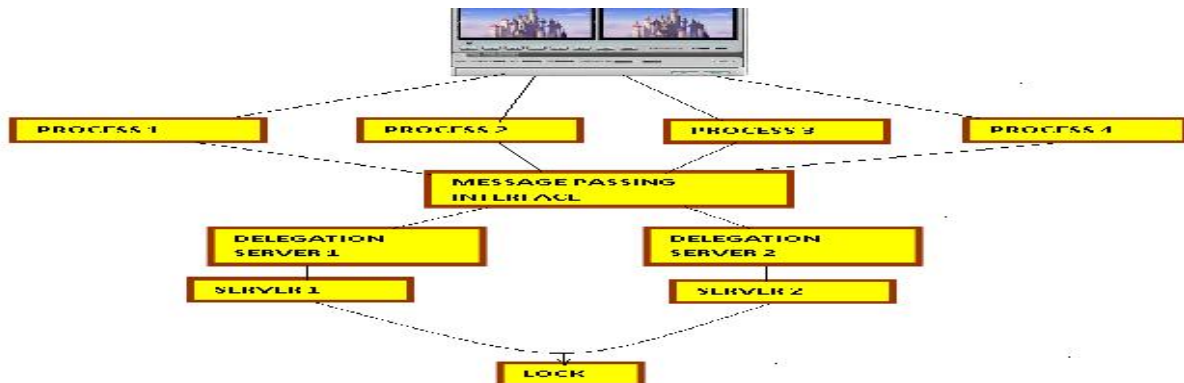
DESCRIPTION : In the **EXISTING SYSTEM**, Strict data consistency semantics adopted from traditional file systems are inadequate for homogeneous parallel computing platforms. For high performance parallel applications independent I/O is critical, particularly if check pointing data are dynamically created or irregularly partitioned. In the **PROPOSED MODEL**, the user requested videos are divided into multiple process, those process are passed to Message Passing Interface (MPI) which then allocates delegate system according to the available server. so that speedy and easy handling is assured. These Jobs are allocated to the delegate Via Round Robin Method. **MODIFICATION** that we propose is peer to peer streaming without disturbing the load of the Main Server. We also add up the security by encryption.

DOMAIN:. **Networking**

ISO / IEC 20000 CERTIFIED	BHARTIYA UDYOG RATAN - AWARDED	BITS PILANI PRACTICE SCHOOL	ISO 9001 : 2008 CERTIFIED

Page 20 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10020 (JA 6046). PREVENTION OF ONLINE PASSWORD HACKING PROCESS WITH SECURED MULTI AUTHENTICATION SCHEME

ARCHITECTURE DIAGRAM
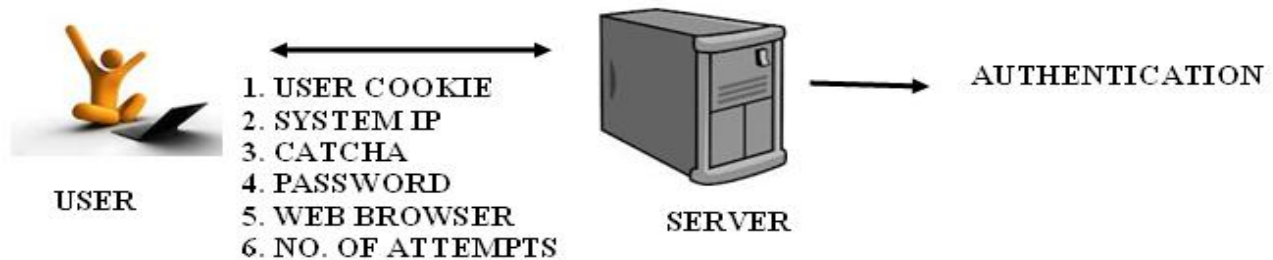
DESCRIPTION : In the **EXISTING MODEL**, online Guessing attacks on Password Based Systems are inevitable and commonly observed against Web Applications. In the **PROPOSED SYSTEM**, the Server Verifies (1) User Name from the Cookie of the User's Machine, (2) System IP, (3) Catcha, (4) Password of the User, (5) Number of Failure Attempts by the User, (6) Web Browser that the User Uses for Browsing. This Process of Verification is called as Automated Turing Tests (ATT). The **MODIFICATIONS** that we Propose from the IEEE Base Paper is the Authentication of User by asking Secret Questions which was answered during the Registration Phase.

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823
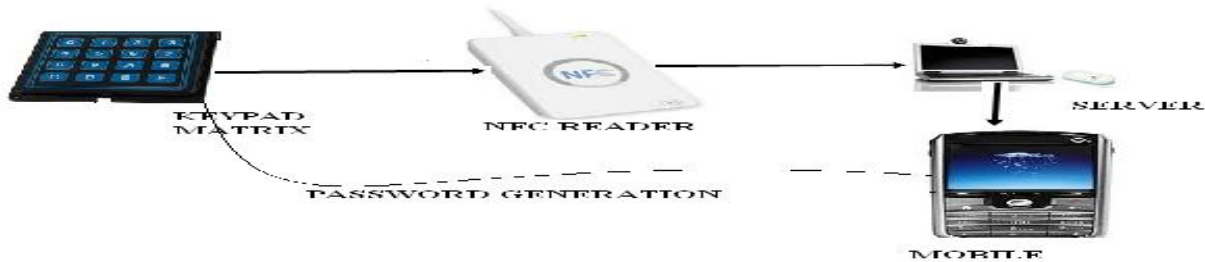
DOMAIN: Network Security

IEEE REFERENCE: IEEE Transactions on Dependable and Secure Computing, 2012

DN 10021 (JA 6016). ANALYSTIC APPROACH TO DETECT ATM COUNTERFEIT CARDS USAGE USING NFC TECHNOLOGY

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM,** People relish the flexibility of being able access their monetary assets when and where they need them. The abundance of cards able to withdraw funds from Automatic Teller Machines (ATMs) has not gone unnoticed by the cyber criminal element. Means for skimming and cloning cards exist and the market continues to grow. In the **PROPOSED SYSTEM**, Server Tracks the Same ATM Card's Usability in different ATM Machine locations or accessibility of the same Card more times in a single ATM Machine. **MODIFICATION** that we Propose NFC Card is used as ATM Card. If the same Card is used in different ATM Machines at the same Time, the Server detects it as Attack so that the ATM Card is blocked and Alert SMS is send to the Legitimate User's Mobile Number. For every new Transaction a Token is generated as SMS to the user's Mobile so that user can write in the NFC

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823
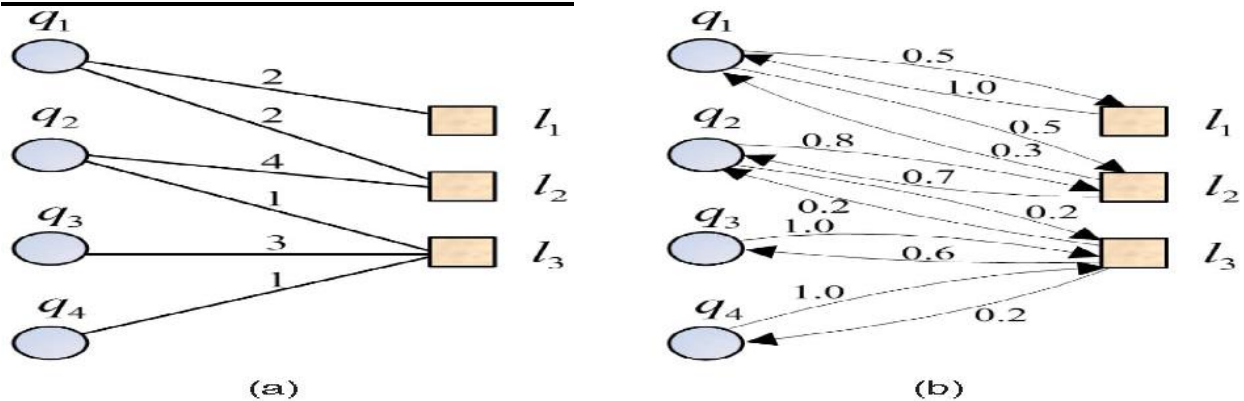
Card which is verified for Authentication. This process will surely prevent the accessibility of ATM Card even Attacker steals the ATM Card.

DOMAIN: Mobile Computing, Embedded

IEEE REFERENCE: IEEE Paper on System Science (HICSS), 2012.
DN 10022 (JA 6031). GENERALISED AND PERSONALISED WEB SEARCH WITH FEEDBACK BASED RE - RANKING SYSTEM

ARCHITECTURE DIAGRAM

(a)   (b)

DESCRIPTION : In the **EXISTING SYSTEM**, Innumerable different kinds of recommendations are made on the Web every day, including movies, music, images, books recommendations, query suggestions, tags recommendations, etc. No matter what types of data sources are used for the recommendations, essentially these data sources can be modeled in the form of various types of graphs. In the **PROPOSED SYSTEM**, there are three methods to be

BMQR ISO/IEC 20000-1 CERTIFIED ASCB(E) Accrediting Certifying Bodies	IEDRA		ISO 9001 CERTIFIED AIAO-BAR QMS ACCREDITED
ISO / IEC 20000 CERTIFIED	BHARTIYA UDYOG RATAN - AWARDED	BITS PILANI PRACTICE SCHOOL	ISO 9001 : 2008 CERTIFIED

**77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823**

adopted. 1. Diffusion directed 2. Diffusion Undirected. 3. Random Jump. In the **MODIFICATION** process, we get the feedback from the users and then the corresponding server will Re-rank the data and provided to the new user.

DOMAIN: Data Mining

IEEE REFERENCE: IEEE Transactions on Knowledge and Data Engineering, 2012

DN 10023 (JA 6011). DYNAMIC IDENTIFICATION OF RESOURCE MONITORING & PREDICTION OF EFFECTIVE DATA COMMUNICATION IN GRID ENVIRONMENT

ARCHITECTURE DIAGRAM
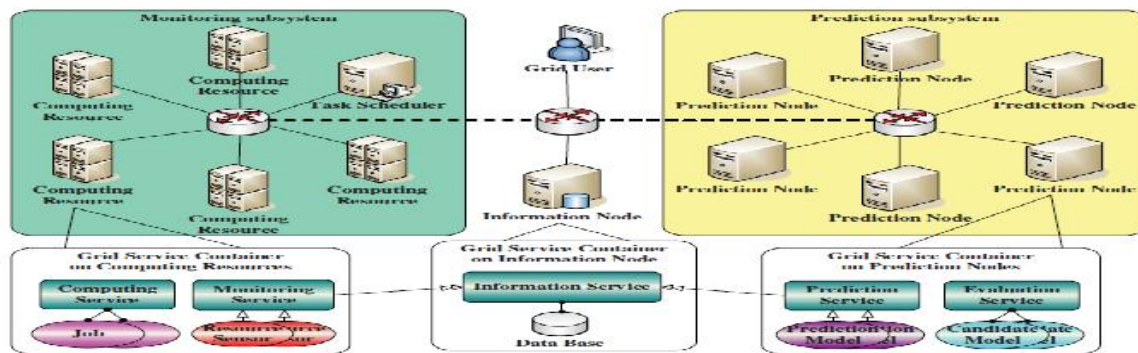
DESCRIPTION : In the **EXISTING SYSTEM** Integration Resource Allocation and Job Scheduling Process in the Grid Environment is the Challenging Task. So We **PROPOSE,** a Model by Which Grid Resource Monitoring will Monitor the Resource Utilized Currently and the available Resource in the Grid Server and the Grid Resource Predication is to Verify the

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823
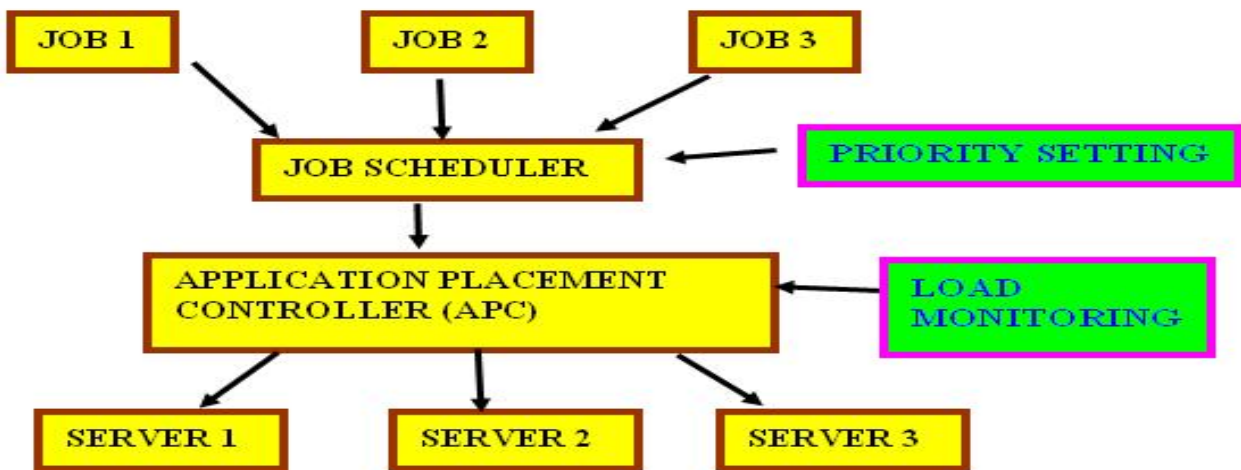
Historical Data to Predict Amount of Resource Required to Process the Request. We use PH-PSO for this Process. The **MODIFICATION** we Propose is Same Data is Requested Again by Some other User, then the Information Server (IS) will have Catch Memory and IS will Forwarded the Data rather Disturbing the Grid Resource Server.

DOMAIN: Grid Computing

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10024 (JA 6021). AUTOMATIC LOAD MONITORING SYSTEM WITH PRIORITY SETTINGS FOR EFFECTIVE TRANSACTIONAL WORKLOADS

ARCHITECTURE DIAGRAM

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DESCRIPTION : In the **EXISTING SYSTEM**, one server will carry the entire workload (or) multiple server can carry without the proper scheduling. In the **PROPOSED SYSTEM,** Jobs are allotted to Job scheduler, then to the Application Placement Controller (APC), where it identifies the load of every server and allocates the job accordingly. In the **MODIFICATION PART**, we setting the Priority checking in the Job scheduler itself, where user can specify the priority status of a job so the job scheduler first transmits High then Medium and finally low priority job to APC, then the to the best server.

DOMAIN:. **Networking**

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10025 (JA 6032). MULTI INPUT DEVICE CONTROL WITH VIBRATION DETECTION IN CLOUD COMPUTING USING ANDROID

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, very few Device Control process is Wireless and most of our home Appliances control is via Wired Connection. If at all there is wireless communication has its own range. Control of Devices is achieved in a Short Range only. In the **PROPOSED SYSTEM,** we have developed a Home Automation system that employs the integration of multi-touch mobile devices, cloud networking, wireless communication, and remote control of various lights and appliances within their home. This system uses a consolidation of a mobile phone application, handheld wireless remote, and PC based program to provide a means of user interface to the consumer. The **MODIFICATION** that we propose is Vibration Sensor is connected to the User PC, if the Vibration is detected Automatic Alert SMS is send to the mobile number of Authorized Person.

DOMAIN: Mobile Computing, Embedded, Android

IEEE REFERENCE: IEEE Paper on Southeastcon, 2012
DN 10026 (JA 6028). BLOOM CAST: EFFECTIVE DATA RETRIEVAL SYSTEM WITH BLOOM IN A P2P ENVIRONMENT

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, The emergence of P2P file sharing applications, millions of users have used P2P systems to search desired data. Existing P2P full-text search schemes can be divided into two types: DHT based global index and federated search engine over unstructured protocols. In the **PROPOSED SYSTEM,** To overcome this issues we propose a novel strategy, called BloomCast, to support efficient and effective full-text retrieval in this paper. BloomCast hybridizes a lightweight DHT with an unstructured P2P overlay to support random node sampling and network size estimation. Furthermore, we propose an option of using Bloom Filter encoding instead of replicating the raw data. Using such an option, Bloom Cast replicates Bloom Filters (BF) of a document. By replicating the encoded term sets using BFs instead of raw documents among peers, the communication/storage costs are greatly reduced, while the full-text multi keyword searching are supported. In the **MODIFICATION** that we propose is to identify the best documentation by applying Stemming Algorithm so that keywords are extracted and compared with requested term frequency using Ranking Process.

DOMAIN: **Data Mining , Networking**

IEEE REFERENCE: **IEEE Transactions** on Parallel and Distributed Systems, 2012

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

Aadhityaa Infomedia Solutions

CRISIL CERTIFIED

DN 10027 (JA 6049). IDENTIFICATION OF USER INTEREST SERVICES AND LOCATION PATTERNS USING USER ACTIVITY MONITORING SYSTEM

ARCHITECTURE DIAGRAM
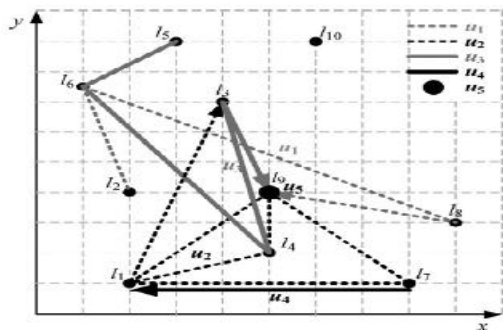
❖ **USER TRACKING - UMD**
❖ **LOCATION INTEREST – LMD**
❖ **SERVICE INTEREST - SRD**

DESCRIPTION : In the **EXISTING SYSTEM**, there is no exact tracking mechanism for identifying the users likes and dislikes of location based services. So this may not be helpful to identify the best service provided to the user. In the **PROPOSED MODEL**, we track the users movement based behavior pattern and which helps to identify a location on which user stays for longer time and helpful to identify user's favorite services. UMD (User Movement Database) is to track user's movement. LMD (Location Movement Database) is to identify user's desired Location. SRD (Service Request Database) is to identify the user's desired Service. **MODIFICATION** that we propose is, a new user enter can verify the most liked services by plenty of previous users which helps them to choose the right service at right location.

DOMAIN:. **Mobile Computing, Data Mining**

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10028 (JA 6044). COMPUTATION OF SHORTEST PATH IN EMERGENCY PATIENT MONITORING USING ZIGBEE

ARCHITECTURE DIAGRAM
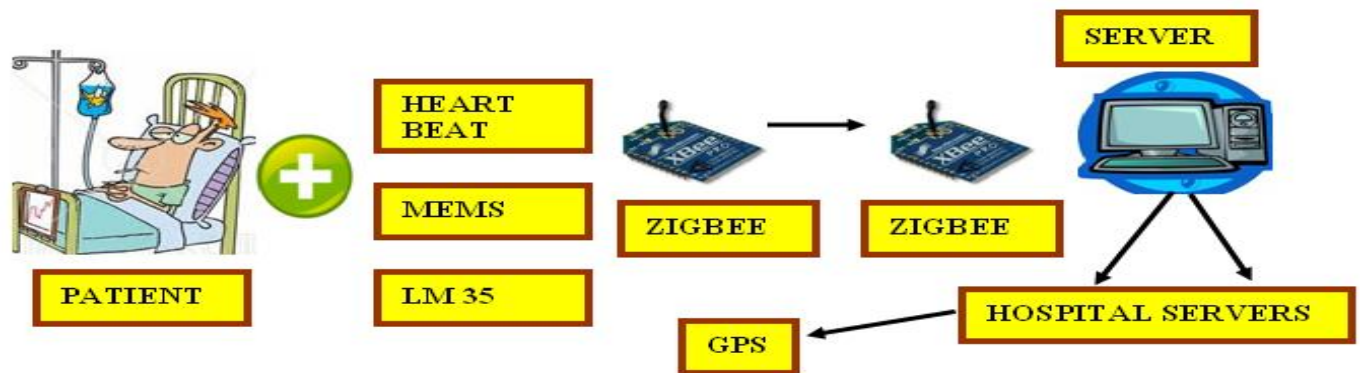
DESCRIPTION : In the **EXISTING SYSTEM**, the patients Bio-Medical parameters are monitored Manually either in the Hospital or by a Guardian in Home. There is no automated Process to know the patients Bio-Medical values without other person's support. In the **PROPOSED SYSTEM**, Patient's Bio-Medical parameters (Heart Beat and Temperature) and fault detection using MEMS is identified and transferred to the server via Zigbee Communication. The server will identify the Critical stage of the patient by automated method. The **MODIFICATION** that we propose is that the Centralized Server after analyzing the patients Bio-medical parameters and identifies the nearest hospital by getting the patients location information so that immediate support will be provided to the patient via ambulance. Google Earth is initiated in the Hospital server so that the nearest hospital server can send the ambulance to save the patient's life.

DOMAIN:. **Networking, Embedded**

BMQR ISO/IEC 20000-1 CERTIFIED ASCB(E) Accrediting Certifying Bodies **ISO / IEC 20000 CERTIFIED**	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: IEEE TRANSACTIONS on Information Technology in Biomedicine, 2012

DN 10029 (JA 6029). EFFECTIVE AND EFFICIENT MULTIMEDIA DATA SHARING SYSTEM WITH LOAD BALANCING AND SECURITY

ARCHITECTURE DIAGRAM
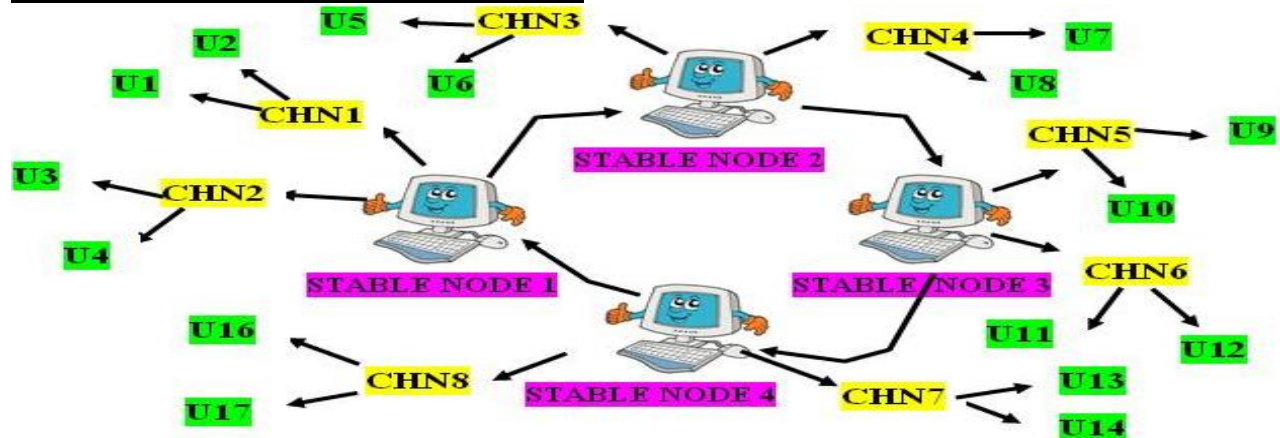
DESCRIPTION : In the **EXISTING SYSTEM**, the server-client model were used which fall short in meeting the increasing need of bandwidth and storage resources. In the **PROPOSED SYSTEM**, we'll have P2P network with stable and child nodes connected to the users in a hierarchy model. Load balancing Process is also implemented effectively by shifting heavily loaded stable node to the position of the lightly loaded stable node. Proper resource utilization is also implemented. In the **MODIFICATION**, We also provide the security for the video contents by encrypting the data contents.

DOMAIN: Networking

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: **IEEE Transactions** on Parallel and Distributed Systems, 2012

DN 10030 (JA 6051). IDENTIFICATION OF EFFECTIVE CHILDEREN TRACKING SYSTEM USING SMART PHONE TOWER LOCATION DETECTION
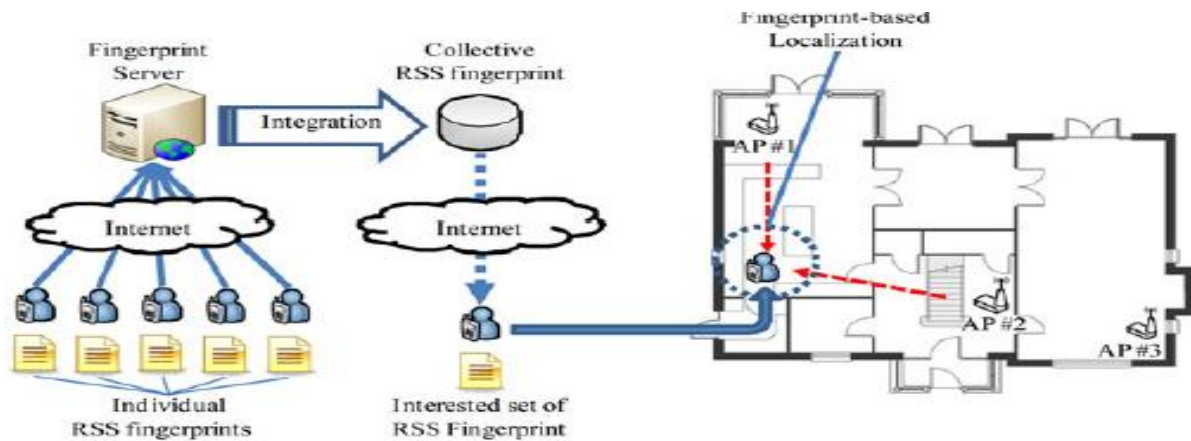
ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, The Global positioning system (GPS) has commonly been used in outdoor environments and been widely adopted in modern mobile devices such as smart phones. In indoor environments, however, no outstanding solution has been found due to practical issues which are related to complicated infrastructure requirements. In **PROPOSED SYSTEM**, the received Signal Strength finger Print based Indoor Localization of the user. This Process of tracing is achieved using Radio Frequency and Radio Frequency Identification (RFID) Tags.

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823
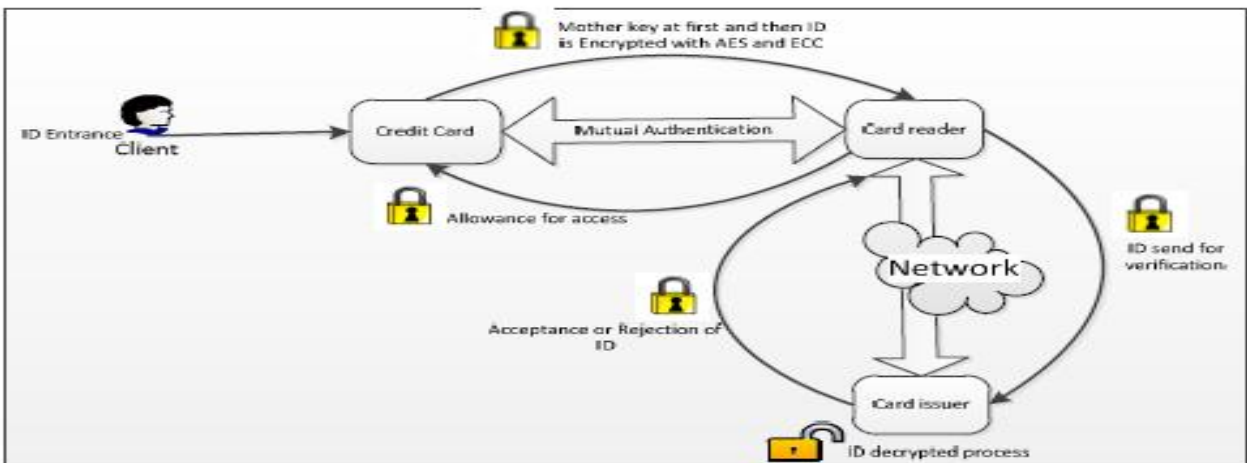
DOMAIN: Mobile Computing, Embedded

IEEE REFERENCE: IEEE TRANSACTIONS on Systems, Man, and Cybernetics, 2012

DN 10031 (JA 6066). NFC BASED SECURED MULTIPURPOSE SMART CARD SYSTEM FOR COMMON PUBLIC UTILITY

ARCHITECTURE DIAGRAM

DESCRIPTION : Smart cards have many applications such as health, ID verification and access control, electronic purse card, banking card, payphone card, passport card and license card. Since, there are many kinds of smart cards, it is difficult to carry and protect them. Losing one card means losing a lot of important information. So in this paper proposes to combine some important cards such as: health, passport and credit system in one multipurpose smart card and find an encryption method to make it enough secure. It should also be efficient in transferring

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

information. It means, we develop an effective encryption system for these three applications in a multipurpose smart card and we propose an optimized encryption system for the applications.

DOMAIN: **Mobile Computing, Security, Embedded**

IEEE REFERENCE: IEEE Paper on Cyber Security, Cyber Warfare and Digital Forensic (CyberSec), 2012

DN 10032 (JA 6073). AUTOMATIC ENVIRONMENTAL GATHERING AND DYNAMIC CONTROL SYSTEM IMPLEMENTATION USING ANDROID

ARCHITECTURE DIAGRAM

DESCRIPTION : Mobile devices (in particular smart phones and tablets) can be used to monitor quality of life parameters. Today mobile devices use embedded sensors such as accelerometers, compasses, GPSs, microphones, and cameras without considering, for example, the air quality or the pollutants of the environment. This paper presents the possibility to use the smart phones capabilities to gather data from other phones or sensors. Nowadays, monitoring climate condition's parameters such as temperature and humidity is a prominent factor to control the changes of the environmental condition of living or working places for the human being. This point can be obtained by using distributed devices in different environments that containing high-resolution sensors and a wireless transmission apparatus for transferring data to smart

phones. Smart phones are the programmable tools to have different kinds of applications that allow communicating with other devices and also gathering, analyzing and verifying data. In this paper, a novel interface by applying a Bluetooth-based sensor to sense Temperature and Humidity for monitoring of the environmental conditions using the android-based smart phone is introduced.

DOMAIN: Mobile Computing, Embedded, Android

IEEE REFERENCE: IEEE Paper on Southeastcon, 2012
DN 10033 (JA 6027). NFC BASED ANDROID IMPLEMENTATION FOR DISCOUNT AND LOYALITY COUPONS WITH SECURITY SYSTEM

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM,** we're purchasing the products via online (Over internet from the users PCs). Though online retailing is featured in mobile, that wasn't developed as much as compared to the retailing via PCs and Laptops. In the **PROPOSED SYSTEM,** We can purchase the products through our Android Smartphone. The user will hit the shopping server from their Android mobile with NFC Tag. The once they've entered into the

**77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823**

site, they can purchase the items. Here we're providing the NFC ID to each and every user so that they enter it whenever they're signing into the site. In the **MODIFICATION**, we're sending an SMS alert to the user's mobile phone regarding the "deals of the day". This lets the users to know the deals, so that they can purchase the products. Also we're writing the Image Coupon Id in the NFC tag. This ensures the security for the users.

DOMAIN: **Mobile Computing, Security, Embedded, Android**

IEEE REFERENCE: IEEE Paper on Near Field Communication , 2012
DN 10034 (JA 6053). THEMIS: A MUTUALLY VERIFIABLE BILLING SYSTEM FOR THE CLOUD COMPUTING ENVIRONMENT

ARCHITECTURE DIAGRAM
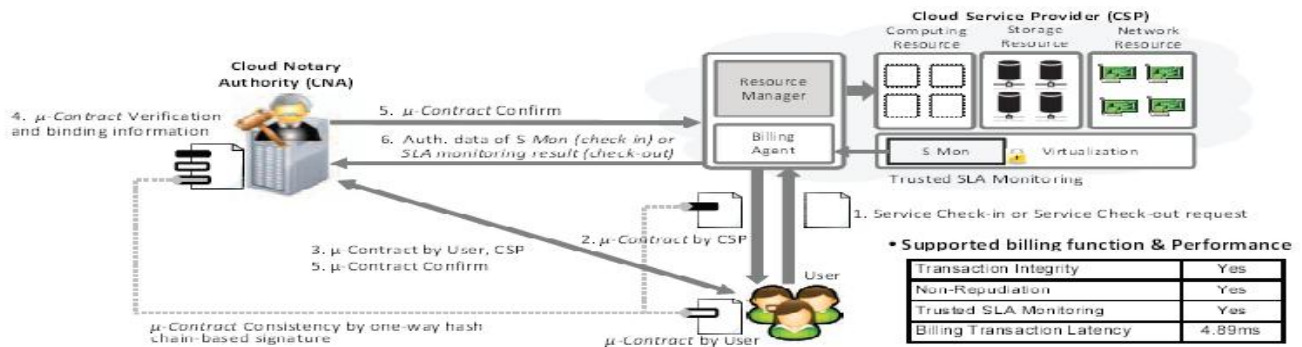
DESCRIPTION : With the widespread adoption of cloud computing, the ability to record and account for the usage of cloud resources in a credible and verifiable way has become critical for cloud service providers and users alike. The success of such a billing system depends on several factors: the billing transactions must have integrity and non repudiation capabilities; the billing transactions must be non obstructive and have a minimal computation cost; and the service level agreement (SLA) monitoring should be provided in a trusted manner. Existing

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 36 of 56

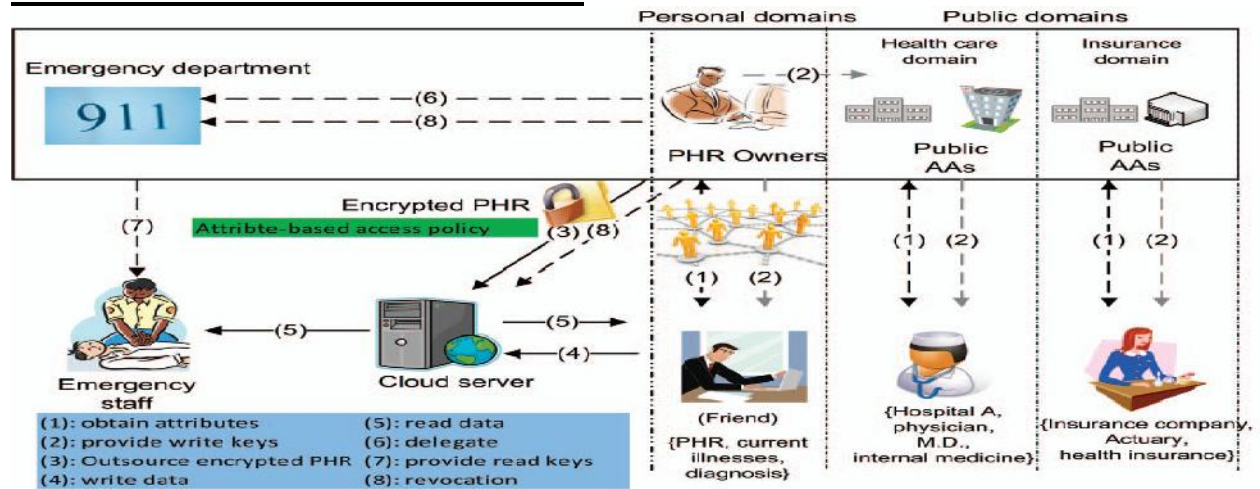**77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823**

billing systems are limited in terms of security capabilities or computational overhead. In this paper, we propose a secure and non obstructive billing system called THEMIS as a remedy for these limitations. The system uses a novel concept of a cloud notary authority for the supervision of billing. The cloud notary authority generates mutually verifiable binding information that can be used to resolve future disputes between a user and a cloud service provider in a computationally efficient way. Furthermore, to provide a forgery-resistive SLA monitoring mechanism, we devised a SLA monitoring module enhanced with a trusted platform module (TPM), called S-Mon.

DOMAIN: Network Security

IEEE REFERENCE: IEEE Transactions on Service Computing, 2012

DN 10035 (JA 6050). DESIGN OF EFFECTIVE ATTRIBUTE BASED ENCRYPTED SECURITY SYSTEM FOR PUBLIC AND PERSONAL CLOUD COMPUTING SYSTEM

ARCHITECTURE DIAGRAM

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 37 of 56

DESCRIPTION : In the **EXISTING SYSTEM**, Personal health record (PHR) is an emerging patient-centric in Cloud Computing Servers. However, there is no Security in keeping privacy concerns of the Patient & could be exposed to those third party servers and to unauthorized parties. In the **PROPOSED MODEL**, a novel patient-centric framework and a suite of mechanisms for data access control to PHRs stored in semi-trusted servers. We leverage attribute based encryption (ABE) techniques to encrypt each patient's PHR file. Our scheme also enables dynamic modification of access policies or file attributes, supports efficient on-demand user/attribute revocation and break-glass access under emergency scenarios.

DOMAIN: Cloud Computing, Security

IEEE REFERENCE: **IEEE Transactions** on Parallel and Distributed Systems, 2012

DN 10036 (JA 6058). DEVELOPMENT OF HUMAN – VEHICULAR CROSS COMMUNICATION IN IDENTIFING BEST ROUTE FOR TRANSPORTATION
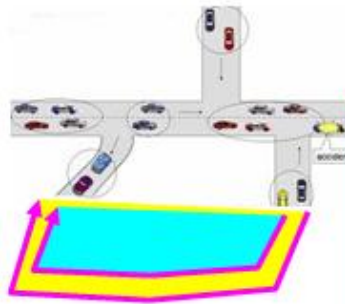
ARCHITECTURE DIAGRAM

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

VANET

ANDROID MOBILE USER

DESCRIPTION : In the **EXISTING SYSTEM**, when the road accidents traffic occurs, all the vehicle wait for hours together, until the traffic is cleared. In the **PROPOSED MODEL**, RFID based Navigation is processed once traffic occurs immediately vehicular based communication for travel. The **MODIFICATION** that we propose is user can find the best route using sensor is attached so that SMS Alert is send to the Hospital.

DOMAIN: Mobile Computing, Embedded, Android

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and
Distributed Systems, 2012

DN 10037 (JA 6034). AUTOMATIC DATA MINING TECHNIQUE FOR PREDICTING SALES PERFORMANCE ON A PRODUCT QUALITY DOMAIN

ISO / IEC 20000 CERTIFIED	BHARTIYA UDYOG RATAN - AWARDED	BITS PILANI PRACTICE SCHOOL	ISO 9001 : 2008 CERTIFIED

Page 39 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXITING SYSTEM**, posting online reviews has become a common practice for e-commerce websites to provide the venues and facilities for people to publish their reviews. Prior studies of product sales failing to consider the effect of the sentiments present in the blogs and strong correlation between the volume of reviews and sales spikes, using the volume or the link structures alone do not provide satisfactory prediction performance. In the **PROPOSED SYSTEM**, we are implementing this process for product purchase. The manufacturer initially gives their feedback process to the main server, and then the main server will Re-rank according to the quality which displayed to the new user's. The server will update auto regressive process to find out the product category. We apply S-PLSA algorithm to predict the performance of the product. In the **MODIFICATION** phase, user can make a query to the server specifying a general product. The server will predict the best product with the best deals by comparing the rest of the relevant and the manufacturers.

DOMAIN: Data Mining

IEEE REFERENCE: IEEE Transactions on Knowledge and Data Engineering, 2012

DN 10038 (JA 6047). DISTRIBUTION OF SECRET KEYS AND THE PACKETS FOR SECURED DATA FORWARDING SCHEME IN CLOUD SERVER

BMQR ISO/IEC 20000-1 CERTIFIED ASC(R)E) Accrediting Certifying Bodies	IEDRA	BITS	ISO 9001 CERTIFIED AIAO-BAR QMS ACCREDITED
ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 40 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, Cloud Computing is the Process of Storing the Data in the Remote Server. This Process Doesn't Speak about Confidentiality of the Data. So in the **PROPOSED MODEL**, the Uploaded file from a Data Owner is Splitted into Multiple Packets and Stored in Multiple Cloud Servers. These Packets are Encrypted Using the Primary Key. These Different Keys are also distributed in Multiple Key Servers. User ID is Appended for Verification. If the Data Owner Forwards the file then the Keys are Verified for the Data Access. The **MODIFICATION** that we Propose is the Sending the Secret Key as SMS to the Shared / Forwarded Nodes for the Process of Proper Security.

DOMAIN: Cloud Computing, Security

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DN 10039 (JA 6048). DYNAMIC ACCESS SERVER REASSIGNMENT USING IDENTIFING OPTIMIZED THROUGHPUT CALCULATION IN WIRELESS CLUSTER

ARCHITECTURE DIAGRAM
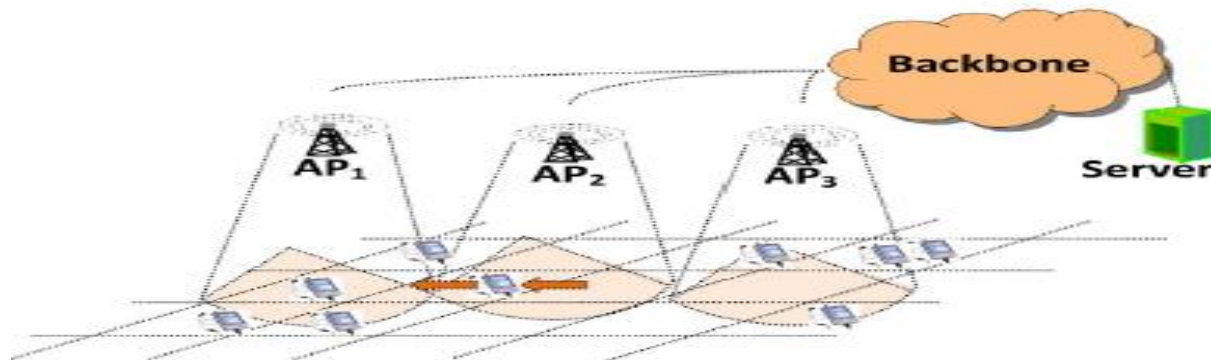
DESCRIPTION : In the **EXISTING SYSTEM**, In a constructed wireless sensor network, the information about some area of interest may require further investigation such that more traffic will be generated. However, the restricted routing of a ZigBee cluster-tree network may not be able to provide sufficient bandwidth for the increased traffic load, so the additional information may not be delivered successfully. In the **PROPOSED SYSTEM**, the aim is to avoid the traffic vai overload, so as the deliver the packets to the destination we apply push pull re-label algorithm which measures capacity distance number of packets so that the delivery is corrected by the next region head. In the **MODIFICATION**, We apply security part of the implementation by the encryption of packets. We implement using wireless networks and not using zigbee hardware.

DOMAIN: Networking

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10040 (JA 6023). CUT DETECTION & AUTOMATIC REJOINING OF ISOLATED NODES IN WSN

ARCHITECTURE DIAGRAM
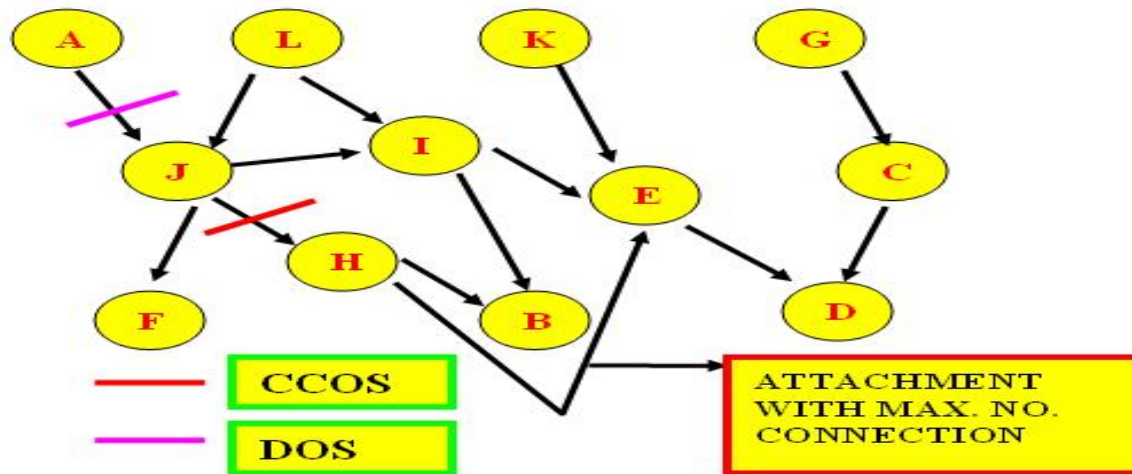
DESCRIPTION : In the **EXISTING SYSTEM**, Link(or) the nodes can be disconnected which cannot be detected. So packets are lost again and again as the cut in the networks aren't identified. In the **PROPOSED MODEL,** the cut detection is identified using CCOS (or) DOS Algorithm, in order to verify it leaf nodes are disconnected or Direct Nodes are disconnected. We calculate Hop Count and Time Stamp to identify the disconnection. he **MODIFICATION** that we propose is, to add the disconnected nodes to the node which has maximum number of connections.

DOMAIN:. Networking

ISO / IEC 20000 CERTIFIED	BHARTIYA UDYOG RATAN - AWARDED	BITS PILANI PRACTICE SCHOOL	ISO 9001 : 2008 CERTIFIED

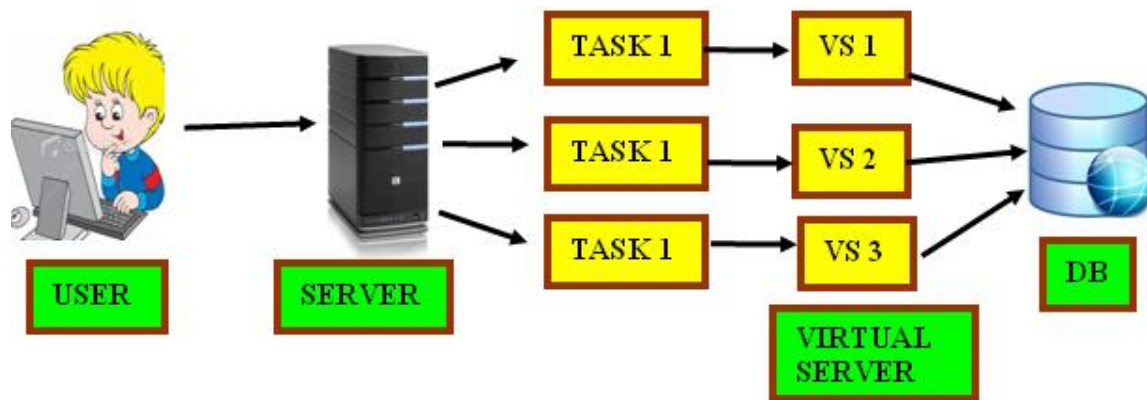Page 43 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10041 (JA 6033). GURANTEED AND SPEEDY WORK FLOW CONTROL WITH VIRTUALISATION OF SERVERS ON MULTITIER CLUSTERS

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, there will be lots of server will be available but then, one server will carry all the jobs at a time, so load imbalance will occur. In the **PROPOSED MODEL**, user's request is splitted into multiple task and virtual server is created according to the load of task. All the Virtual Server submit the corresponding task to Application server and then to the Database. We also implement this for a Money transferring/ Banking Process. The **MODIFICATION** is that the multiple tasking implementation with SMS alert.

DOMAIN: Networking

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10042. FINGERPRINTING MOBILE USER POSITIONS IN SENSOR NETWORKS: ATTACKS AND COUNTERMEASURES

ARCHITECTURE DIAGRAM
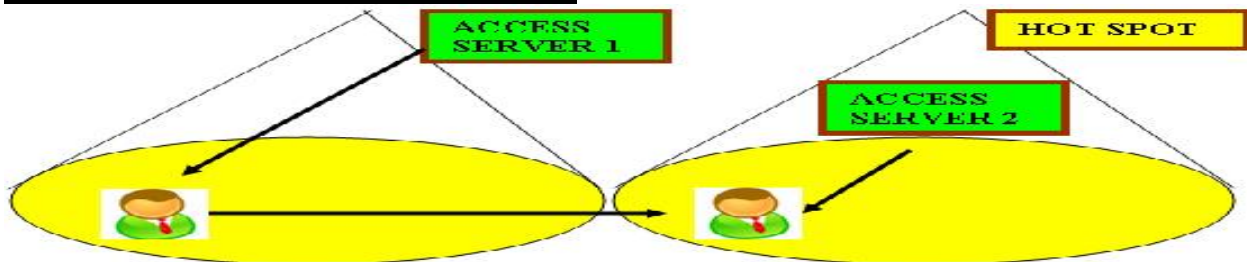
MONITORING USER'S MOVEMENT, HOT SPOT IS IDENTIFIED FOR EFFECTIVE & SPEEDY DATA DELIVERY DURING HIGH TRAFFIC ALONG WITH THE ADVERTISEMENTS TO THE USER.

DESCRIPTION : In the **EXISTING SYSTEM**, the adversaries are able to build a mapping between the instant distribution of mobile users and the observed network flux. Due to this traffic packets are lost and generate High traffic. In the **PROPOSED SYSTEM**, we apply network flux model for effective data delivery from network wide data collection tree. Mobile user's activity monitoring via prediction and filtering technique is used to find the next Expected Movement of the user. So that if the traffic is High on the current area access server, the next excepted Area Access server is identified as Hot SPOT for Effective Data Delivery. In the **MODIFICATION**, We Propose is automatic alert of the advertisement of the current location to

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823
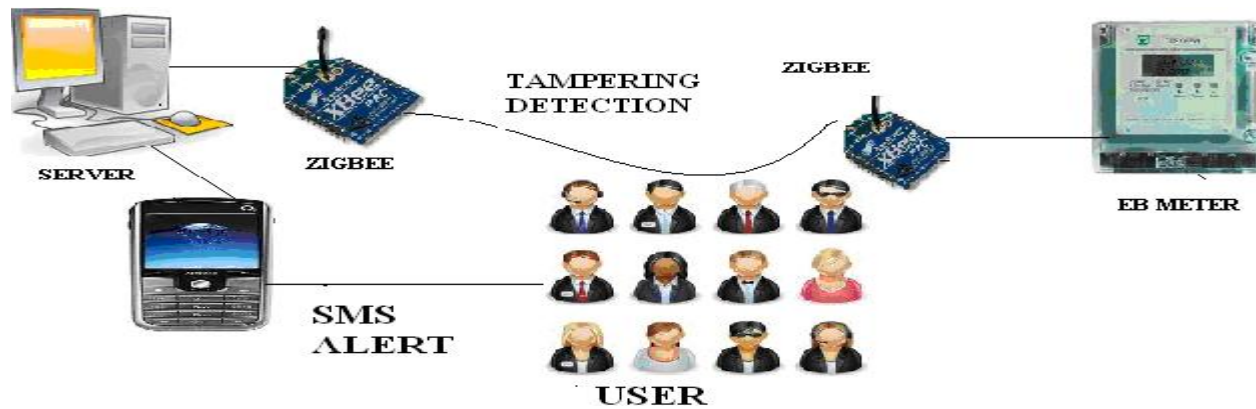
the user. As user moves from one location to another, the corresponding advertisements are provided to them.

DOMAIN:. **Networking**

IEEE REFERENCE: IEEE TRANSACTIONS on Parallel and Distributed Systems, 2012

DN 10043 (JA 6042). AUTOMATIC POWER TARIFF CALCULATION (PTC) AND TAMPERING DETECTION WITH UTILITY CONTROL SYSTEM USING ZIGBEE

ARCHITECTURE DIAGRAM

DESCRIPTION : In the **EXISTING SYSTEM**, EB Persons would come to the house manually for calculating the EB Charges. In the **PROPOSED MODEL**, the Automatic process of fetching the EB charges is proposed. EB server is connected with zigbee sends request to Every Home for the Automatic EB Meter Readings (AMR). Every house is connected with the zigbee which in return transmits the value back to the EB server with user ID. The values are

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 46 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

updated in the EB Server. The **MODIFICATION** is automatic alert SMS of cost is send to the customers. The Amount is automatically detected from the Bank Account of the Customer. Meter Tampering Detection is also a added associated feature to find any user tries to cut down the Electric Bill along with this we modify by limiting the Usage of EB for every User. So that the consumption of EB can be reduced and which helps to save the Power.

DOMAIN: Mobile Computing, Embedded

IEEE REFERENCE: IEEE Paper on Latin America, 2012

DN 10044. DESIGN AND IMPLEMENT OF ATTENDANCE MANAGEMENT SYSTEM BASED ON CONTACT LESS SMART IC CARD

ARCHITECTURE DIAGRAM
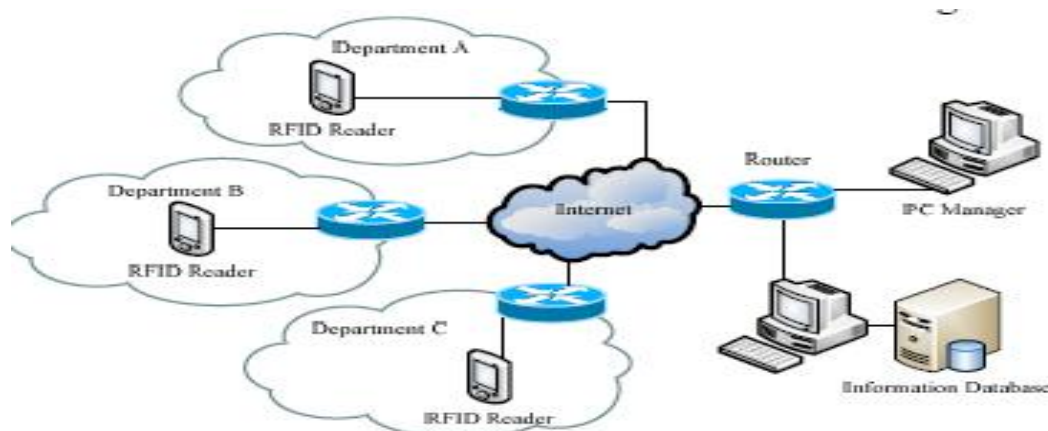
DESCRIPTION : In the **EXISTING SYSTEM**, the Educational Institutions would send the Attendance Records manually to the Parents (or) through Monthly Alert as SMS. In the

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 47 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

PROPOSED SYSTEM, the student's presence would be send as SMS to the Parents immediately that day itself on a Daily Basis. Every Student would be provided with Finger Print Authentication. The **MODIFICATION** that we propose is RFID card is provided to every User as ID Card. RFID Card and Finger print is matched only then Attendance is recorded and SMS Alert is send to the Parents.

DOMAIN: Mobile Computing, Embedded

IEEE REFERENCE: IEEE Paper on Computer Science and Electronics Engineering (ICCSEE), 2012
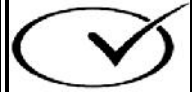
DN 10045. TRUSTWORTHY COORDINATION OF WEB SERVICES ATOMIC TRANSACTIONS

ARCHITECTURE DIAGRAM

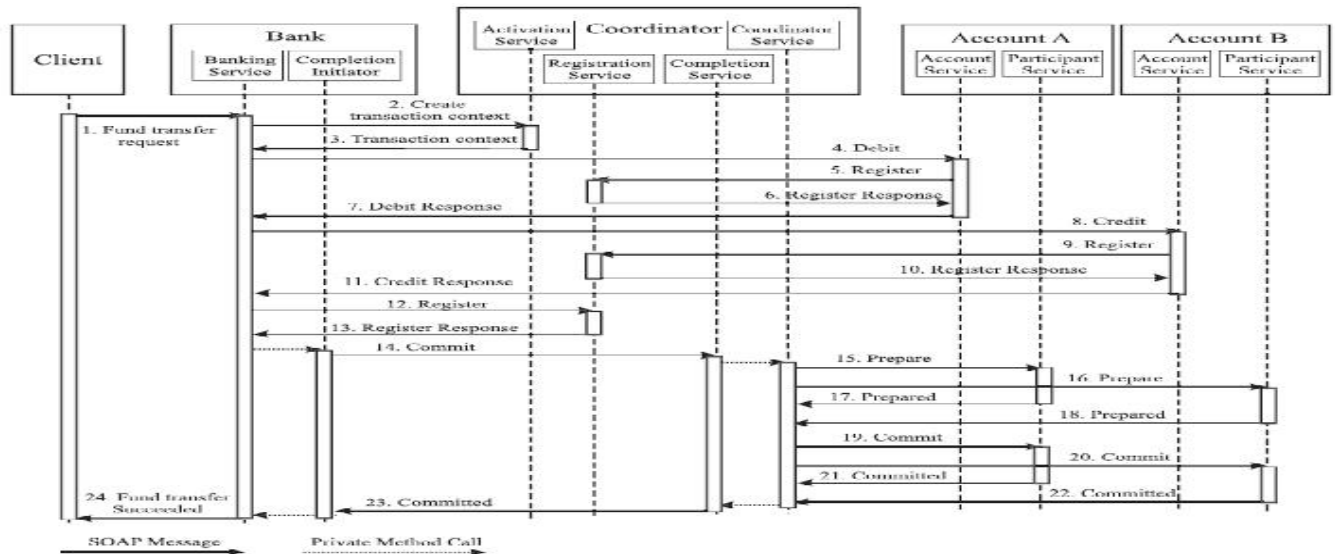| ISO / IEC 20000 CERTIFIED	BHARTIYA UDYOG RATAN - AWARDED	BITS PILANI PRACTICE SCHOOL	ISO 9001 : 2008 CERTIFIED

Page 48 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DESCRIPTION : The Web Services Atomic Transactions (WS-AT) specification makes it possible for businesses to engage in standard distributed transaction processing over the Internet using Web Services technology. For such business applications, trustworthy coordination of WS-AT is crucial. In this paper, we explain how to render WS-AT coordination trustworthy by applying Byzantine Fault Tolerance (BFT) techniques. More specifically, we show how to protect the core services described in the WS-AT specification, namely, the Activation service, the Registration service, the Completion service and the Coordinator service, against Byzantine faults. The resulting BFT Ensures high degree of dependability, security, and trust.

DOMAIN: Web Service

IEEE REFERENCE: **IEEE Transactions** on Parallel and Distributed Systems, 2012

IEEE 2011 PROJECTS

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DN 10046. IMAGE BASED SECURED PASSWORD AUTHENTICATION SCHEME USING HASHED BYTES WITH SALTING PROCESS

DOMAIN: Security

DN 10047. DEVELOPMENT OF XML BASED KEYWORD SEARCH WITH CLUSTERED RESULTS FOR EFFECTIVE & SPEEDY DATA RETRIEVAL

DOMAIN: Data Mining

DN 10048. EFFICIENT AND EFFICIENT UPDATED DATA RETRIEVAL SYSTEM CONTINUOUS TEXT SEARCH QUERIES

DOMAIN: Data Mining

DN 10049. MODELING AND DETECTION OF DISTRIBUTED CLONE ATTACKS FOR SAFETY TRANSCATIONS IN WSN

DOMAIN: Network Security

BMQR ISO/IEC 20000-1 CERTIFIED ASC(E) Accrediting Certifying Bodies			
ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 50 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DN 10050. DYNAMIC AND FLEXIBLE ROBUST GROUP KEY AGREEMENT USING MOBILE ENVIRONMENT FOR SECURED COMMUNICATION

DOMAIN: Network Security

DN 10051. SECURED & IMPLICIT PASSWORD AUTHENTICATION TO AVOID SHOULD SURFING ATTACK

DOMAIN: Security, Mobile Computing

DN 10052. MULTI MODEL BIOMETRICS AUTHENTICATION FOR SECURED TRANSACTIONS

DOMAIN: Image Processing, Security

DN 10053. SECURED IAAS IMPLEMENTATION OF CLOUD COMPUTING WITH MULTILEVEL INTRUSION DETECTION SYSTEM WITH SMS ALERT

DOMAIN: Cloud Computing, Security

BMQR ISO/IEC 20000-1 CERTIFIED	BHARTIYA UDYOG	BITS PILANI	ISO 9001 AIAO-BAR
ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 51 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823
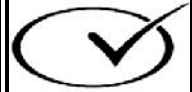
DN 10054. IDENTIFICATION & REMOVED OF MALICIOUS SOURCE OF DDOS ATTACK USING FLOW ENTRPOY AND IP TRACE BACK SYSTEM

DOMAIN: Network Security

DN 10055. IDENTIFICATION AND PREVENTION PHISHING ATTACKS USING BAYESIAN APPROACH WITH SMS ALERT

DOMAIN: Web Security

DN 10056. FUZZY IMPLEMENTATION OF BIOMETRICS WITH FIVE FACTOR AUTHENTICATION SYSTEM FOR SECURED BANKING

DOMAIN: Security, Mobile Computing, Embedded

DN 10057. EFFICIENT AND SPEEDY DATA RETRIEVAL SYSTEM USING PROBABILISTIC FLOODING USING KNOWLEDGE BASED INDEXING SYSTEM

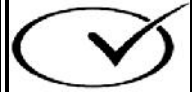| **ISO / IEC 20000 CERTIFIED**	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 52 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DOMAIN: Networking

DN 10058. MODELING AND DETECTION OF CAMOUFLAGE WORM USING SPECTRUM BASED ANALYSIS

DOMAIN: Network Security

DN 10059. ADAPTIVE LOCATION BASED CONTENT DELIVERY USING ACCESS POINT CENTRIC AND DEPUTY & FORWARD MECHANISM

DOMAIN: Mobile Computing

DN 10060. DEVELOPMENT OF SECURITY SCHEME IN RELATIONAL DATABASES USING JTAM FOR THE DETCETION OF IDS

DOMAIN: Data Mining

DN 10061. PATTERN BASED EXTRACTION SYSTEM OF AUTONOMOUS DISCOVERY OF PERSONAL NAME AND ALIASES FOR EFFECTIVE INFORMATION REDRIVES

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DOMAIN: Data Mining

DN 10062. AUTONOMOUS RECONFIGURATION (ARS)AND DYNAMIC PATH DISCOVERY SYSTEM FOR EFFECTIVE DATA COMMUNICATION IN WSN

DOMAIN: Networking

DN 10063. AUTOMATIC IDENTIFICATION OF DISEASE TREATMENT WITH TRUST WORTHY RESULT'S USING MACHINE LEARNING APPROACH

DOMAIN: Data Mining

DN 10064. AUTONOMOUS DISCOVERY OF NODE & ROUTE IN CLUSTERED SENSOR NETWORKS

DOMAIN: Networking

ISO / IEC 20000 CERTIFIED	**BHARTIYA UDYOG RATAN - AWARDED**	**BITS PILANI PRACTICE SCHOOL**	**ISO 9001 : 2008 CERTIFIED**

Page 54 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

DN 10065. SECURED ONLINE VOTING SYSTEM WITH STENOGRAPHY IMPLEMENTATION USING RFID & FINGER PRINT TECHONOLOGY

DOMAIN: Mobile Computing, Security

DN 10066. DYNAMIC AND AUTOMATED VOICE BASED CONTROL OF WHEEL CHAIR FOR PHYSICALLY CHALLENGED PEOPLE

DOMAIN: Mobile Computing, Embedded

DN 10067. GAS LEAKAGE DETECTION AND ENVIRONMENT SAFETY USING ZIGBEE

DOMAIN: Mobile Computing, Embedded

DN 10068. RFID AND BIOMETRIC IMPLEMENTATION OF STUDENTS TRACKING SYSTEM WITH AUTOMATIC SMS ALERT TO PARENTS

DOMAIN: Mobile Computing, Embedded

BMQR ISO/IEC 20000-1 CERTIFIED ASCB(E) Accrediting Certifying Bodies	IEDRA	BITS PILANI	ISO 9001 CERTIFIED AIAO-BAR QMS ACCREDITED
ISO / IEC 20000 CERTIFIED	BHARTIYA UDYOG RATAN - AWARDED	BITS PILANI PRACTICE SCHOOL	ISO 9001 : 2008 CERTIFIED

Page 55 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823

YOUR OWN IDEAS ALSO

ISO / IEC 20000 CERTIFIED	BHARTIYA UDYOG RATAN - AWARDED	BITS PILANI PRACTICE SCHOOL	ISO 9001 : 2008 CERTIFIED

Page 56 of 56

77/2,HABIBULLAH ROAD, T. NAGAR, CH – 17. PH : 2834 2821 / 2822 / 2823