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SAVING BATTERY OF MOBILE STATION & RESPONSE TIME BY SERVER WITH COMPRESSION

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ABSTRACT:- There are some mobile applications which receive the information from application servers by user generated queries. Processing the request on the mobile devices drain the mobile battery. On the other hand, processing user-queries at application servers causes increased response time because of the communication latency during transmission of the large size query. In this thesis work, to minimize battery drain as well as response time query processing on one mid network node (Relay Node) had done. Leasing processing power from mid network node may decrease battery usage on the mobile devices and response times, so that is totally depend on service provider how much it has to lease? The trade of processed data with response time, memory required & energy required is studied. The dynamic programming approach for the optimality to distribute the amount of query processing load on relay node is also used. Here I extended our work with the compression & encryption. LZ4-HC compression technique is used to minimize the size of data so that its processing is automatically decreased thereby it's obvious that there is further more save of battery. At mobile station compression is done. We do feature extraction at relay node as a part of query processing. Encryption is also applied to the extracted features for security purpose at relay node. On the other hand, at application server feature decryption has done with training & classification which are application level functions.

Keywords—AES, Artificial Neural Network(ANN), Feature, Extraction, LZ4-HC.

PREVENTING ANONYMOUS NETWORK FROM ABUSIVE USER (PANAU)

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ABSTRACT:- Anonymizing networks such as Tor allow users to access Internet services privately by using a series of routers to hide the client's IP address from the server. The success of such networks, however, has been limited by users employing this anonymity for abusive purposes such as defacing popular websites. Website administrators routinely rely on IP-address blocking for disabling access to misbehaving users, but blocking IP addresses is not practical if the abuser routes through an anonymizing network. As a result, administrators block all known exit nodes of anonymizing networks, denying anonymous access to misbehaving and behaving users alike. To address this problem, we present PANAU, a system in which servers can "Blacklist" misbehaving users, thereby blocking users without compromising their anonymity. Our system is thus agnostic to different servers' definitions of misbehaviour servers can Blacklist users with privacy of blacklisted users is maintained. But if user does some serious crimes as per cyber law then we provide all information of that particular user.

Keywords— Anonymizing networks, IP address, PANAU, misbehaving users