**REVIEW**

|  |  |
| --- | --- |
| Title | **Security in the Internet of Things : A Review** |
| Type | International Conference on Computer Science and Electronics Engineering |
| Volume & Page | - |
| Year | 2012 |
| Author | Hui Suoa, Jiafu Wana,b  Caifeng Zoua, Jianqi Liua |
| Reviewer | Hendri Purnomo , Asep Irawan, Danang A.M, Tetra Praja.U |
| Date | 25 November 2019 |
| Introduction | * Internet of things is a concept where internet connectivity can exchange information with each other with the objects that are around it * security hole on iot ( munication data, hardware device, web service, aplication) * type of attack on iot (DDOS,  Brute Force Attack, Sql injection etc.) * solution to overcome attacks |
| Objective(s) | The research is to show the status of key technologies including :  encryption mechanism  communication security  protecting sensor data  cryptographic algorithms |
| Conclution | Brief review of the research progress of IoT about the security. By means of deeply analyzing the security architecture and features, the security requirements are given. |

**REVIEW**

|  |  |
| --- | --- |
| Title | **A Novel Retina Based Biometric Privacy Using Visual Cryptography** |
| Type | IJCSNS International Jurnal of Computer Science and Network Security |
| Volume & Page | VOL.16 No.9 |
| Year | 2016 |
| Author | M. Suganya  K. Khrisnhakumari |
| Reviewer | Danang Ade Muktiawan |
| Date | 5 Desember 2019 |
| Introduction | Biometrics is the detailed measurement of human body. Biometrics deal with automated methods of identifying a person or verifying the identity of person based on physiological or behavioral characteristics. There are various applications where personal identification is needed because it is related to confidentiality. Examples of biometrics used for security are facial thermo gram, hand vein, odor, ear, hand geometry, fingerprint, face, retina, iris, palm print, voice and signature. Among those retina recognition is one of the most promising approach because of stability, uniqueness and noninvasiveness. As template is stored in centralized database, they are vulnerable to eavesdropping and attacks. Thus alternative protection mechanisms need to be considered. For these reasons various researches have been made to protect the biometric data and template in the system by using cryptography, stenography and watermarking. |
| Objective(s) | In applying security systems using retina based on privacy biometrics,there are two aspect that must be considered, namely biometric system and biometric data. Security in the biometric system will be bettermaintained because everyone has a different pattern. Whereas biometric data is easy to hack because biometric data uses a centralized database system, which in this section has many gaps for data hacking. For this reason, security is done using visual cryptographic methods, which during the process of sending and synchronizing the data are encrypted so it is more secure. |
| Research methodology | Application of visual cryptography for the privacy of retinal biometrics |
| Conclution | This work introduces the possibility of using visual cryptography scheme to provide the privacy to biometric data. A method is proposed to store retina template securely in the database using visual cryptography. In addition the contribution is here is also providing the privacy to the retina images private image can only be created only when both the sheets are present. Experimental results indicate that by applying visual cryptography techniques on retina template for more security, matching performance of iris recognition is unaffected with extra layer of authentication. |
| Weakness | There are still many possibilities of data hacking on the database system because there are many methods that can be used to break encrypted data |