Abstract

Personal Health Record (PHR) sharing in cloud is a major issue in recent trends. The data stored in cloud is not secure because everything depends upon the cloud service provider. An unexpected cloud crash may expose all data in cloud. In order to overcome that a new symmetric key encryption that uses a constant key for encrypting PHR is proposed. The system developed uses a Patient Controlled Encryption (PCE), where the patients control and manage their own health record. The system developed enhances key management by storing the keys by the patient itself. The patients can share their key with whoever they want. The algorithm used here takes less computational time and memory usage for execution than existing
cryptographic algorithms.

References


Index Terms

Computer Science Security

Keywords

Personal Health Record Access Control Data Privacy Symmetric Key Encryption Data Security.