Abstract

Service computing is a cross discipline that covers the science and technology of bridging the gap between Business services and IT services. The demand for health care services motivated the creation of PHISP: a Public-oriented Health care Information Service Platform, where, service computing and related technologies are used. PHISP supports many health care services and provide guardianship. The intention is to create models of composite services to individuals through various key techniques of service composition supporting branch and parallel control structures. Security and semantic retrieval is an important issue for such a health care platform. The Boneh–Lynn–Shacham signature scheme improves the security by allowing the user to verify that the signer is authentic and the Elgamal signature technique for encrypting the stored data. The Ontology and naïve bayes classification algorithm has been utilized to increase the performance of the system. The experimental result improves the security and meanwhile, by using ontology and bayes' theorem the accuracy of the result is increased.
A Secured Web-based Health Care Platform Incorporating Naïve Bayes Classifier


Index Terms

Computer Science  Security

Keywords

Service Oriented Architecture  Service Composition  Web Services  ElGamal
Signature
Boneh- Lynn – Shacham Signature
Ontology.