Abstract
The cloud has measure issues of bulk data storage, outsourced data corruptions, fault tolerance together with data integrity check and failure reparation. Another problem is that user need to always stay online for the purpose of continuous auditing of his own data which is not practically possible, especially for long-term archival storage. This might result in data owner's loss of ultimate control over the fate of their outsourced data [1]. Thus, the correctness, accessibility and reliability of the data are being put at risk. To solve the above problem of failed auditing in the absence of data owners, system introduce a proxy server, which is privileged to regenerate the authenticators, into the traditional public auditing system. This arrangement helps to outsource the burden of continuous online availability of user for auditing purpose to proxy server. In addition to this systems introduce regenerating-code-based cloud storage to handle the problem of data integrity check and failure reparation.

References

- Bo Chen, Reza Curtmola, Giuseppe Ateniese, Randal Burns, Remote Data Checking for Network Coding-based Distributed Storage Systems.
- Yunghsiang S. Han, Fellow, IEEE, Hung-Ta Pai, Senior Member, IEEE, Efficient Exact Regenerating Codes for Byzantine Fault Tolerance in Distributed Networked Storage.
- Boyang Wang, Student Member, IEEE, Baochun Li, Oruta: Privacy-Preserving Public Auditing For Shared Data in the Cloud.
- Chao Tian, Senior Member, IEEE, Characterizing the Rate Region of the (4, 3, 3) Exact-Repair Regenerating Codes.
- S. Nancy Priya1, D. Elavarasi, Remote resource maintenance with data integrity based on code regeneration scheme.
- Jing He a, Yanchun Zhang a, Guangyan Huang a, Yong Shib, c, Distributed data possession checking for securing multiple replicas in geographically-dispersed clouds.
- Onur Ozan Koyluoglu, Member, IEEE, Ankit Singh Rawat Secure Cooperative Regenerating Codes for Distributed Storage Systems.

**Index Terms**

Computer Science  
Security

**Keywords**

Cloud Storage  
Regenerating Codes  
Public Audit  
Privacy Preserving  
Authenticator  
Regeneration  
Proxy  
Privileged  
Provable Secure.