**CONCLUSION**

The growing need for secure cloud storage services and the attractive properties of the convergent cryptography lead us to combine them, thus, defining an innovative solution to the data outsourcing security and efficiency issues.Our solution is based on a cryptographic usage of symmetric encryption used for enciphering the data file and asymmetric encryption for meta data files, due to the highest sensibility of these information towards several intrusions. In addition, thanks to the Merkle tree properties, this proposal is shown to support data deduplication, as it employs anpre-verfication of data existence, in cloud servers, which is useful for saving bandwidth. Besides, our solution is also shown to be resistant to unauthorized access to data and to any data disclosure during sharing process, providing two

levels of access control verification.Finally, we believe that cloud data storage security is still full of challenges and of paramount importance, and many research problems remain to be identified.