



## A Secure Anti-Collusion Data Sharing Scheme for Dynamic Groups in the Cloud

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**ABSTRACT:** Benefited from cloud computing environment, client users can attain an effective and economical approach for data sharing among group members in the cloud with the characters of small maintenance and short management cost. Meanwhile, in this we must provide security guarantees for the sharing data file since they are outsourced the data. Unfortunately, because of the continual change of the membership, sharing data while providing privacy preserving is still a challenging issue, especially for an untrusted cloud due to the collusion attack. In this paper, we propose a secure data sharing scheme, which can achieve secure key distribution and data sharing for dynamic group. We propose a secure data sharing scheme which can be protected from collusion attack. The revoked users can not be able to get the original data files once they are revoked even if they conspire with the untrusted cloud. Our scheme can achieve secure user revocation with the help of polynomial function.

**KEYWORDS**— Access control, Privacy-preserving, Key distribution, Cloud computing

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### 1. INTRODUCTION:

Cloud computing is the use of computing resources (hardware and software) that are delivered as a service over a network (typically the Internet). The name comes from the common use of a cloud-shaped symbol as an abstraction for the complex infrastructure it contains in system diagrams. Cloud computing entrusts remote services with a user's data, software and computation. Cloud computing consists of hardware and software resources made available

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