

# Authorized Keyword Search over Outsourced Encrypted Data in Cloud Environment

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**Abstract:** *This project focuses on developing a secure and efficient mechanism for authorized keyword search over encrypted data outsourced to a cloud environment. With the increasing popularity of cloud computing, data owners are often required to outsource their data to cloud servers for storage and processing. However, the security of outsourced data is a major concern due to the possibility of unauthorized access by cloud providers or malicious attackers. To address this problem, the proposed system introduced a novel expressive authorized keyword search scheme relying on the concept of ciphertext-policy attribute-based encryption. The mechanism also incorporates access control policies to ensure that only authorized users can perform the search operation. Experimental results demonstrate that the proposed mechanism can achieve high search efficiency while maintaining strong security guarantees*

**Keywords:** authorized keyword