## Temporal, delegable and cheap update access control to published XML documents.

## **ABSTRACT**

Providing access control for published XML documents on the Web is an important topic. It involves the use of cryptographic techniques, addressing different requirements and, as a result, facing several challenges. Existing solutions still have some weaknesses such as system update cost, number of required secret encryption/decryption keys, size of encrypted document and supporting temporal and delegable access. This study propose a push--based access control policy enforcement mechanism for addressing these issues using a Dynamic Key Management Table (DKMT) and based on Identity Based Encryption (IBE). The proposed mechanism addresses the existing challenges and provides a more acceptable solution.

**Keyword:** XML documents; XML access control; Access delegation and temporal access.