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Privacy-Preserving Sub graph Matching Scheme with Authentication in Social Networks

Social network sites such as Twitter and Facebook are meaningfully changing the way in which people interact, communicate and share information on the web. People take advantage of social network sites to meet with old friends, build new friends, or find people who have the same extended families. In order to solve these problems, we introduce the cloud into the privacy preserving subgraph matching scheme. Using the proposed scheme, the cloud can accomplish the subgraph matching query process without obtaining any sensitive information about the users. Additionally, we achieve data integrity verification and user authentication. The detailed security and efficiency analysis show that the proposed scheme not only satisfies security requirements but also achieves high-efficiency in local users, and it is suitable for many practical applications.

Domain: Cloud Computing
Technology: Java