ABSTRACT

In this paper, we propose a novel algorithm for privacy-based Web service ranking. The proposed algorithm is inference aware and history sensitive. Inference awareness refers to the ability to make it futile for Web services providers to use inference mechanisms to derive non-explicitly disclosed information about users. History sensitiveness refers to the ability to prevent services from violating users' privacy by exploiting their invocation history. The algorithm's overhead is minimized so that it can be integrated in any online service discovery mechanism.