

216. PRIVACY PRESERVING INFORMATION BROKERING WITH LATENCY MINIMIZATION

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Information Brokering Systems (IBSs) have been proposed to connect significant data sources via a brokering connection, in which the brokers make routing decisions to direct client queries to the requested data servers. Many existing IBSs assume that brokers are trusted and thus only adopt server-side access control for data confidentiality. However, privacy of data location and information about the consumer can still be inferred from metadata but little attention has been put on its protection. Hence an approach to preserve privacy of multiple participants involved in the information brokering process is proposed. For the two attacks namely attribute-correlation attack and inference attack, there are two countermeasure schemes automaton segmentation and query segment encryption to securely share the routing decision making responsibility among a selected set brokering servers. Still performance is reduced due to the latency time taken for the transaction. Here we propose an improved algorithm to minimise the Latency.

Index Terms—Access control, Information sharing, Privacy, Latency Minimization.

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