

## Hidden Query Technology and Its Applications -- Rafail Ostrovsky

Abstract: Stealth Software allows one party to access and query others' databases without revealing the specific question being searched for, while at the same time protecting the searched databases from improper transfer of data out of their databases. This unique combination of capabilities is important for many applications in intelligence and law enforcement, as well as for multi-agency and coalition operations. For the intelligence community, Stealth Software allows users to execute classified queries on unclassified (or with a lower classification) machines without having to upload all data into a classified setting. Stealth's solution offers cost-effectiveness, efficiency, and timeliness, and provides a capability for the intelligence community to collect data without revealing sources and methods (or anything else) about the nature of the classified query. A key issue for multi-agency and coalition operations is how and when to share data. The ability to identify the existence of key data that needs sharing, while still protecting the data owners' processes, sources and methods for release of the data, is a critically important capability for multi-agency and multi-nation operations.