

Privacy Preserving Search over Encrypted Cloud Data

by

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All interested are cordially invited.

ABSTRACT:

This speech presents a framework that supports different types of privacy-preserving search queries over encrypted cloud data. In the framework, users can perform any of the multi-keyword search, range search and k-nearest neighbor search operations over encrypted data without revealing sensitive information such as the searched terms. Also, the content of the retrieved data is not revealed. Several techniques such as locality sensitive hashing and homomorphic encryption are utilized in the proposed framework.

BIOGRAPHY:

Cengiz ÖRENCİK is an assistant professor in Computer Engineering Department at Beykent University since 2016. He received his MS (2008) and Ph.D. (2014) in computer engineering from Computer Science and Engineering Department at Sabanci University. His research interests include cryptography, data and communication security, biometric security, security and privacy in data mining applications, and homomorphic encryption.

Cengiz Örencik published scientific articles on the fields of cryptography and data privacy at prestigious international journals and proceedings of conferences. He also participated in projects funded by TÜBİTAK and Türk Telekom as researcher.