



"سخنرانی های علمی"

پژوهشگاه دانشهای بنیادی  
پژوهشکده علوم کامپیوتر

## Secure Join Queries over Encrypted Database

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### Abstract

There has been a surge in the usage of cloud services, especially storage and computing ones in recent years. In such settings, used by both enterprises and individuals, a user outsources his data to an external server. Over time, the user sends queries to the server and receives the result of each one. The main advantage of these services is that a user with limited computational and storage power can take advantage of the unlimited capabilities of the cloud server.

Database management systems (DBMS) are examples of cloud storage services with great demand in industry and business. In such services, since there is no trust to the external servers, the databases are encrypted prior to outsourcing. One of the most challenging issues in designing these services is supporting SQL queries, such as selections, projections, joins, aggregates, and orderings. In this talk, which is based on my achievements during my PhD study, I focus on the secure join queries over encrypted databases.

### Biography

Mojtaba Rafiee Karkevandi has recently received his Ph.D. degree in Computer Science from Department of Mathematical Sciences at Sharif University of Technology under the supervision of Dr. Shahram Khazaei. Mojtaba's interests lie mainly in the field of cryptography and computer security. He is interested in practical and theoretical aspects of Cloud Computing, Blockchain, Database Security, Internet of Things (IoT), Electronic Voting (E-Voting), and Identity and Access Management (IAM).

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