

Query Processing Over Uncertain Databases Xiang Lian

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Query Processing Over Uncertain Databases

However, query processing techniques for deterministic data cannot be directly applied to uncertain data because they do not have mechanisms to handle data uncertainty. Therefore, efficient and effective manipulation of uncertain data is a practical yet challenging research topic.

Query Processing over Uncertain Databases (Synthesis ...

Query Processing over Uncertain Databases | Synthesis Lectures on Data Management. Abstract Due to measurement errors, transmission lost, or injected noise for privacy protection, uncertainty exists in the data of many real applications. However, query processing techniques for deterministic data cannot be directly applied to uncertain data because they do not have mechanisms to handle data uncertainty.

Query Processing over Uncertain Databases | Synthesis ...

Abstract Recently, query processing over uncertain data has become increasingly important in many real applications like location-based services (LBS), sensor network monitoring, object identification, and moving object search.

Query Processing over Uncertain and Probabilistic Databases

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Query Processing Over Uncertain Databases by Lei Chen ...

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Query Processing over Uncertain and Probabilistic Databases

To solve the above problems, edge computing has become a promising solution. In this paper, we propose a new algorithm for processing probabilistic skyline queries over uncertain data streams in an edge computing environment. We use the concept of a second skyline set to filter data that is unlikely to be the result of the skyline.

Probabilistic Skyline Query Processing over Uncertain Data ...

Top-k Query Processing in Uncertain Databases Abstract: Top-k processing in uncertain databases is semantically and computationally different from traditional top-k processing. The interplay between score and uncertainty makes traditional techniques inapplicable. We introduce new probabilistic formulations for top-k queries.

Top-k Query Processing in Uncertain Databases - IEEE ...

Top-k processing in uncertain databases is semantically and computationally different from traditional top-k processing. The interplay between score and uncertainty makes traditional techniques inapplicable. We introduce new probabilistic formulations for top-k queries.

Top-k Query Processing in Uncertain Databases

Query processing over uncertain databases has played an increasingly important role in applications like multi-criteria decision making , data cleansing , and so on.

Probabilistic top-k dominating queries in uncertain databases

News & Events. In the Media; Photo Gallery; Seminars and Events. Upcoming; Past; Archive

Uncertain Database Management

Furthermore, we propose and tackle the PRank query processing over the join of two distinct uncertain databases. Extensive experiments have demonstrated the efficiency and effectiveness of our proposed approaches in answering PRank queries, in terms of both wall clock time and the number of candidates to be refined.

Ranked Query Processing in Uncertain Databases

Query processing over uncertain data is very important in many applications due to the existence of uncertainty in real-world data. In this paper, we propose a novel and important query for uncertain data, namely probabilistic top-(k,l) range (PTR) query, which retrieves uncertain tuples that are expected to meet score range constraint $[s_1, s_2]$.

Probabilistic top-k range query processing for uncertain ...

The range-based uncertain data query processing problem has drawn increasing attention to many researchers, and emerged some range-based uncertain query algorithms, such as location-based query [4], range-based nearest neighbor (NN) query [11] and skyline range query [15].

Probabilistic top- k range query processing for uncertain ...

Definition An uncertain or probabilistic database is defined as a probability distribution over a set of deterministic database instances called possible worlds. In the classical deterministic setting, the query processing problem is to compute the set of tuples representing the answer of a given query on a given database.

Query Processing over Uncertain Data | SpringerLink

title = "Top-k query processing in uncertain databases", abstract = "Top-k processing in uncertain databases is semantically and computationally different from traditional top-k processing. The interplay between score and uncertainty makes traditional techniques inapplicable. We introduce new probabilistic formulations for top-k queries.

Top-k query processing in uncertain databases — University ...

Relational Keyword Search (R-KWS) provides an intuitive way to query relational data without requiring SQL, or knowledge of the underlying schema. In this article we describe a comprehensive framew...

Keyword search over relational tables and streams | ACM ...

PRank query processing over the join of two distinct uncertain databases. Extensive experiments have demonstrated the efficiency and effectiveness of our proposed approaches in answering PRank...

(PDF) Ranked Query Processing in Uncertain Databases

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Query Processing over Uncertain Data

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Query processing over uncertain databases (eBook, 2013 ...

For an uncertain relation of N tuples, the processing cost is $O(N \log N)$ —no worse than simply sorting the relation. In settings where there is a high cost for generating each tuple in turn, we provide pruning techniques based on probabilistic tail bounds that can terminate the search early and guarantee that the top- k has been found.

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