

## Fuzzy Relational Algebra For Possibility Distribution

FREDDI: A fuzzy RElational deductive database interface

Fuzzy Relational Algebra For Possibility On a Fuzzy Algebra for Querying Graph Databases Answers to Database Queries Concerning Imprecise ... Retrieval From Fuzzy Database by Fuzzy Relational Algebra Fuzzy division in fuzzy relational databases: an approach ... Fuzzy relational algebra for possibility distribution ... Fuzzy relational modalities admitting truth valueless ... Querying fuzzy relational databases through fuzzy domain ... Extending Nested Relational Model for Fuzzy Information ... Fuzzy relational algebra for possibility distribution ... Fuzzy Relational Algebra For Possibility Distribution Fuzzy rough set based on lattice effect algebra - IOS Press Flexible Division Operators in Possibility-based Fuzzy ... Relational Algebra - Tutorialspoint A Fuzzy Probabilistic Relational Database Model and Algebra Modeling fuzzy relational database in &nbsp;HBase - IOS Press Generalizing Possibility-Based Fuzzy Relational Models FUZZY QUERIES AND RELATIONAL DATABASES

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Request PDF | Semantic measure of fuzzy data in extended possibility-based fuzzy relational databases | In this paper, we propose notions of equivalence and inclusion of fuzzy data in relational ...

Fuzzy Relational Algebra For Possibility

These operations are classified into the primitive operations, namely, union, difference, extended Cartesian product, selection and projection, and the additional operations, namely, intersection, join, and division. We define the relational algebra for the possibility-distribution-fuzzy-relational model of fuzzy databases.

On a Fuzzy Algebra for Querying Graph Databases

Umano, M. and Fukami, S. [1994] Fuzzy Relational Algebra for Possibility-Distribution-Fuzzy-Relational Model of Fuzzy Data, Journal of Intelligent Information Systems, 3, 7-27. CrossRef Google Scholar

Answers to Database Queries Concerning Imprecise ...

Retrieval From Fuzzy Database by Fuzzy Relational Algebra The real world data may have two types of ambiguity, one is in a data value itself and the other in an association between values. For representing such data, we propose a possibility-distribution fuzzy-relational model.

Retrieval From Fuzzy Database by Fuzzy Relational Algebra

In order to deal with complex as well as uncertain information, in this paper, we introduce fuzzy data into nested relational database model, where data fuzziness appears in forms of possibility distribution and resemblance relations in the universe of discourse. We present the structure of fuzzy nested relational model and define the algebra for manipulating fuzzy and complex data.

Fuzzy division in fuzzy relational databases: an approach ...

Abstract. In this paper, L-fuzzy rough sets as a further generalization of the notion of fuzzy rough sets are proposed. Moreover, some properties in lattice ordered effect algebra are presented. A group of approximation operators are defined by the new operation in effect algebra, which is introduced by Zhou X.N., Li Q.G. and Wang G.J.

Fuzzy relational algebra for possibility-distribution ...

DOI: 10.1007/BF01014018 Corpus ID: 36890893. Fuzzy relational algebra for possibility-distribution-fuzzy-relational model of fuzzy data @article{Umano1994FuzzyRA, title={Fuzzy relational algebra for possibility-distribution-fuzzy-relational model of fuzzy data}, author={M. Umano and S. Fukami}, journal={Journal of Intelligent Information Systems}, year={1994}, volume={3}, pages={7-27} }

Fuzzy relational modalities admitting truth-valueless ...

illustrated by the extension of relational selection. The result is a pair of fuzzy sets  $t_H$  and  $t_N$  where each tuple of a relation  $R$  is linked to the degree of possibility (resp. necessity or certainty) that it satisfies the criterion (denoted  $F$  hereafter).

Querying fuzzy relational databases through fuzzy domain ...

An approach to calculate the relational division in fuzzy databases is presented, starting with the GEFRED model. The tuples of the division are obtained with a possibility degree that indicates the extent to which they comply with the relational division requisites.

Extending Nested Relational Model for Fuzzy Information ...

fuzzy relational databases: Fuzzy relational algebra defined in the GEFRED model and . ... A possibility distribution in a numeric domain e.g., Age 4s 0.4r23,1.0r24,0.8r25 , fuzzy numbers or linguistic labels .. 7. A real number belonging to 0,1 , referring to the degree of matching  $w_x$

Fuzzy relational algebra for possibility-distribution ...

Fuzzy relational algebra for possibility-distribution ... The fuzzy databases are extended from the classical databases based on fuzzy sets and possibility theory , and they can be resemblance-based fuzzy model [5, 6] and possibility-based fuzzy model [7, 8].

Fuzzy Relational Algebra For Possibility Distribution

This paper describes an extended relational database model based on probability theory and possibility theory. Fuzzy information and probabilistic information are incorporated into the relational databases simultaneously to represent fuzzy probability of events in the real-world applications. The tuples in such a relation are associated with a possibility distribution, and their attribute ...

Fuzzy rough set based on lattice effect algebra - IOS Press

Relational algebra is a procedural query language, which takes instances of relations as input and yields instances of relations as output. It uses operators to perform queries. An operator can be either unary or binary. They accept relations as their input and yield relations as their output.

Flexible Division Operators in Possibility-based Fuzzy ...

the Fuzzy Algebra operations. Handling these relations through Fuzzy Relational Algebra can modify, for every tuple, the compatibility attribute values. 2.1.2. Data Handling The Fuzzy Algebra used in this model is an extension of classical relational algebra. In this extension specific comparison operators are used for handling fuzzy information.

Relational Algebra - Tutorialspoint

way as relational algebra constitutes the basis of SQL, the fuzzy algebra proposed here underlies a user-oriented query language and an associated tool implementing this language that are also presented in the paper. Keywords-Graph Database, Query Algebra, Fuzzy theory I. INTRODUCTION Much work has been done about fuzzy querying of relational ...

A Fuzzy Probabilistic Relational Database Model and Algebra

The generalized possibility-based fuzzy relational model we propose frees possibility-based fuzzy relational models from the semantic ambiguity and the indistinguishability of membership attribute values. We demonstrate extended relational algebra in this data model.

Modeling fuzzy relational database in &nbsp;HBase - IOS Press

Key Words: Fuzzy Relational Databases, Imprecision, Uncertainty, Fuzzy Relational Algebra, Quality of Answers. 1. Introduction Ever since the introduction of the relational model from Codd [1], relational database model has been proven to be a very useful model in information management systems and has been applied widespread applications.

### Generalizing Possibility-Based Fuzzy Relational Models

We introduce fuzzy relational modalities of necessity and possibility designed to handle propositions that can be truth-valueless. We identify several important types of these modalities, corresponding to families of connectives and quantifiers of fuzzy partial logic (Bochvar, Sobociński, Kleene) and show some of their properties.

### FUZZY QUERIES AND RELATIONAL DATABASES

For the fuzzy set operation, i.e., fuzzy set union  $r \cup s$ , fuzzy set intersection  $r \cap s$  and fuzzy set difference  $r - s$  over relations  $r$  and  $s$  in fuzzy relational algebra, let  $u_r$  and  $u_s$  be the related possibilities of  $r$  and  $s$ , assume that the corresponding HBase cells of  $r$  and  $s$  are  $r(r_{c1}, r_{c2}, \dots, r_{cn})$  and  $s(s_{c1}, s_{c2}, \dots, s_{cn})$  respectively, then  $r \cup s$  can be mapped into the union of ...

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