

Fuzzy Database Modeling Of Imprecise And Uncertain Engineering Information Studies In Fuzziness And Soft Computing

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Fuzzy Database Modeling Of Imprecise

This book presents recent advances for imprecise and uncertain engineering information from the point of view of fuzzy database modeling. The topics include fuzzy conceptual data modeling of engineeri

Fuzzy Database Modeling of Imprecise and Uncertain ...

This book presents recent advances for imprecise and uncertain engineering information from the point of view of fuzzy database modeling. The topics include fuzzy conceptual data modeling of engineering information, conversion of the fuzzy conceptual models, and database implementation of the fuzzy conceptual data models.

Fuzzy Database Modeling of Imprecise and Uncertain ...

Fuzzy Database Modeling of Imprecise and Uncertain Engineering Information (Studies in Fuzziness and Soft Computing) by Zongmin Ma, March 14, 2006, Springer edition, Hardcover in English - 1 edition

Fuzzy Database Modeling of Imprecise and Uncertain ...

The purpose of introducing fuzzy logic in databases is to enhance the classical database models such that uncertain and imprecise information can be represented and manipulated. This resulted in...

Fuzzy Database Modeling of Imprecise and Uncertain ...

The existing works of RDF fall short in the ability of modeling imprecise and uncertain data in RDF. In this paper, we introduce some basic notions of fuzzy RDF graph model based on fuzzy sets. Along with the fuzzy RDF model, a fuzzy RDF algebra is formally proposed and a set of algebraic operations are developed.

Fuzzy data modeling and algebraic operations in RDF ...

In this paper, a new approach to object-oriented modeling based on fuzzy logic is proposed to formulate imprecise requirements along four dimensions: (1) to extend a class by grouping objects with ...

Fuzzy Sets and Fuzzy Database Models | Request PDF

A new framework for learning from imprecise/fuzzy data, based on the modification of loss functions in empirical risk minimization. • We show that several well-known loss functions used in the literature can be seen as special cases of our generic model. •

Learning from imprecise and fuzzy observations: Data ...

The purpose of introducing fuzzy logic in databases is to enhance the clas- sical models such that uncertain and imprecise information can be represented and ma- nipulated. This resulted in numerous contributions, mainly with respect to the popular relational model or to some related form of it.

A Literature Overview of Fuzzy Database Models

Fuzzy Logic Techniques and Algorithms Fuzzy Mathematics Extensions of fuzzy sets: intuitionistics fuzzy sets, hesitant fuzzy sets, neutrosophic sets, spherical fuzzy sets. Fuzzy Measure and Integral Possibility Theory and Imprecise Probability Fuzzy Database

Home Page ::: Journal of Fuzzy Logic and Modeling in ...

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Fuzzy Database Modeling of Imprecise and Uncertain ...

The fuzzy ER/EER and UML data models can be applied for conceptual modeling of imprecise and uncertain engineering information in addition to the conceptual design of the fuzzy databases. But limited by their power in engineering information modeling, some data models for engineering should be extended fuzzily for imprecise and uncertain engineering information modeling.

The Fuzzy ER/EER and UML Data Models | SpringerLink

Viewed from database technology, information modeling in databases can be identified at two levels: (conceptual) data modeling and (logical) database modeling. Generally a conceptual data model is designed and then the designed conceptual data model will be transformed into a chosen logical database schema.

Fuzzy database modeling of imprecise and uncertain ...

Book Description. Fuzzy Modeling and Genetic Algorithms for Data Mining and Exploration is a handbook for analysts, engineers, and managers involved in developing data mining models in business and government. As you'll discover, fuzzy systems are extraordinarily valuable tools for representing and manipulating all kinds of data, and genetic algorithms and evolutionary programming techniques ...

Fuzzy Modeling and Genetic Algorithms for Data Mining and ...

Imprecise probability generalizes probability theory to allow for partial probability specifications, and is applicable when information is scarce, vague, or conflicting, in which case a unique probability distribution may be hard to identify. Thereby, the theory aims to represent the available knowledge more accurately. Imprecision is useful for dealing with expert elicitation, because:

Imprecise probability - Wikipedia

Abstract: Data modeling needs to consider imprecise and linguistic information so as to cope with fuzziness and partial knowledge often encountered in decision processes.

Journal of Intelligent & Fuzzy Systems - Volume 16, Issue ...

Two major streams of research in data modeling have emerged, namely, fuzzy extensions to the ER/EER models [8,20,24, 28], which lead to fuzzy ER/EER models allowing imprecise and uncertain concepts to be represented and manipulated at a conceptual level, and fuzzy extensions to the RDB model [1& 4,8,16,17,19], which allow imprecise attribute values and linguistic constraints to be combined into the classical context at a data level.

Data modeling with imprecise and linguistic information ...

This paper concerns the modeling of imprecision, vagueness, and uncertainty in databases through an extension of the relational model of data: the fuzzy rough relational database, an approach which uses both fuzzy set and rough set theories for knowledge representa-tion of imprecise data in a relational database model.

CiteSeerX — Citation Query Fuzzy Databases: Principles and ...

fuzzy system architectures and hardware; fuzzy methods in data analysis, statistics and imprecise probability; fuzzy databases and information retrieval; fuzzy pattern recognition and image processing; fuzzy control and robotics; possibility theory; fuzzy sets and logic in ontology, web, and social networks; fuzzy preference modeling; fuzzy ...

NAFIPS 2020 - August 20 - 22, Redmond, WA

From the Cambridge English Corpus. We note that the linear cointegration model has more parameters to be estimated, and some of the adjustment coefficients are relatively imprecise . From the Cambridge English Corpus. As with the other systems, the fuzzy sets represent imprecise values of case attributes.

IMPRECISE | meaning in the Cambridge English Dictionary

Wireless Communications 2021, Germany Robotics-Mechatronics 2020, Netherlands Big Data 2020, Italy Microfluidics Congress-2020, Germany. Asia Pacific & Middle East. Neural Networks 2021, UAE Machine Learning 2021, UAE Wireless Tech Meet 2020, UAE Computer Science-2020, Australia. Canada.