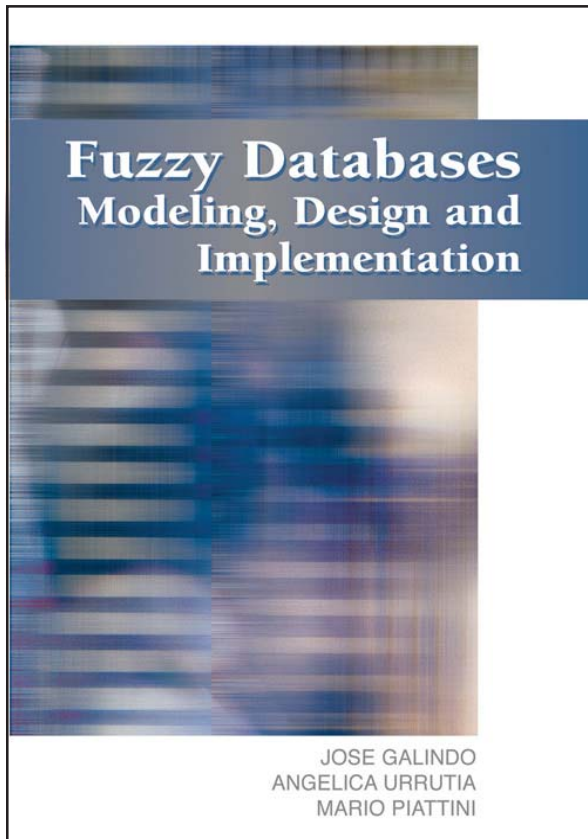


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Fuzzy Databases

Modeling, Design & Implementation

Authored by:

Jose Galindo, Universidad de Málaga, Spain

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Mario Piattini, Universidad de Castilla-La Mancha, Spain

Fuzzy Databases: Modeling, Design and Implementation focuses on some semantic aspects which have not been studied in previous works, and extends the EER model with fuzzy capabilities. The exposed model is called the FuzzyEER model. Some of the studied extensions are: fuzzy attributes, fuzzy aggregations and different aspects on specializations, such as fuzzy degrees, fuzzy constraints, etc. All these fuzzy extensions offer greater expressiveness in conceptual design.

Fuzzy Databases: Modeling, Design and Implementation proposes also a method to translate the FuzzyEER model to a classical DBMS, and defines FSQL (Fuzzy SQL), an extension of the SQL language that allows users to write flexible conditions in queries, using all extensions defined by the FuzzyEER model.

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- Brief Summary and Future Trends

Fuzzy Databases

Modeling, Design & Implementation

This Book...

- Serves as a good introduction to fuzzy logic, fuzzy databases and a complete state of the art in fuzzy modeling in databases
- Provides many examples and graphics, including examples about the FSQL usefulness
- Offers a global and integrated view of fuzzy database constructions
- Presents tools that have been tested with some software prototypes
- Opens new fields in the area of database modeling

About the Authors

José Galindo, Pd.D., is professor of computer science in the school of engineering at the University of Málaga, Spain. Dr. Galindo is the author of several books and papers on computer science, databases, information systems and fuzzy logic. He is a member of IDBIS research group and RITOS-2 ibero-american research net. Dr. Galindo received his Ph.D. in computer science at the University of Granada, Spain.

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