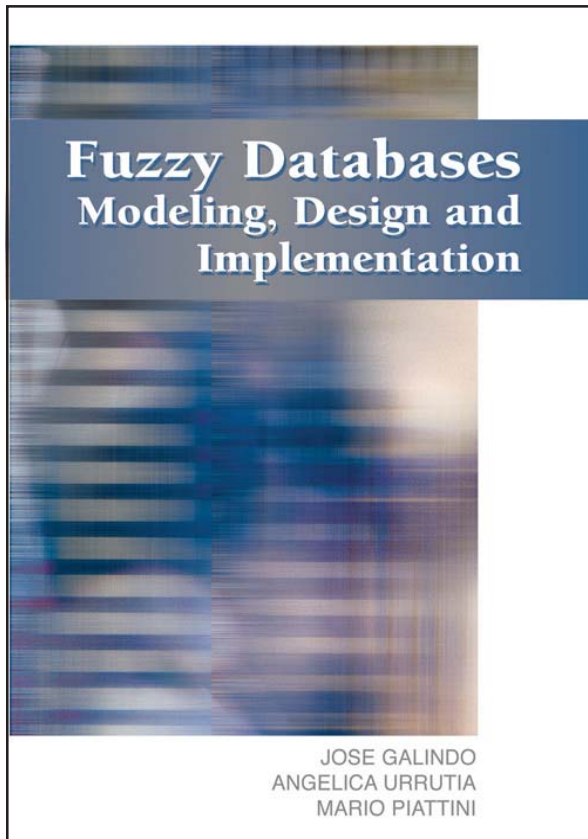


IDEA GROUP PUBLISHING

Publisher of IT books, journals and cases since 1988

New Release

October 2005



"Fuzzy Databases: Modeling, Design and Implementation includes a good introduction to fuzzy logic, fuzzy databases, and complete state-of-the-art information in fuzzy modeling in databases."

-Jose Galindo, Angelica Urrutia & Mario Piattini

Fuzzy Databases

Modeling, Design & Implementation

Authored by:

Jose Galindo, Universidad de Málaga, Spain

Angelica Urrutia, Universidad Católica del Maule, Chile

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.

This book, while providing a global and integrated view of fuzzy database constructions, serves as an introduction to fuzzy logic, fuzzy databases and fuzzy modeling in databases.

Special 30% Discount Offer

ISBN: 1-59140-324-3; ~~US\$89.95~~ US\$62.97 h/c

ISBN: 1-59140-325-1; ~~US\$74.95~~ US\$52.47 s/c

eISBN: 1-59140-326-X • 300 pages • Copyright 2006

Excellent addition to your library!
Recommend to your acquisitions librarian.

www.idea-group.com

Table of Contents

- Introduction to Fuzzy Logic
- Fuzzy Database Approaches
- State of the Art in Fuzzy Database Modeling
- FuzzyEER: Main Characteristics of a Fuzzy Conceptual Modeling Tool
- Representation of Fuzzy Knowledge in Relational Databases: FIRST-2
- Mapping FuzzyEER Model Concepts to Relations
- FSQL: A Fuzzy SQL for Fuzzy Databases
- Some Applications of Fuzzy Databases with FSQL
- 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.

Angelica Urrutia Sepúlveda, PhD, is an associate professor at the Maule Catholic University, Chile, in the computer science department. She is member of the Chilean Computer Science Society and RITOS-2 (Red iberoamericana de tecnologías del software para la década del 2000) working group of CYTED, and the founder and president of the Chilean Workshop on Databases. In 2003, she obtained her Ph.D. in computer science at the Castilla-La Mancha University, Spain. Dr. Sepúlveda has authored several original scientific papers on fuzzy databases and information systems.

Mario Piattini, Ph.D., is a full professor in the department of computer science at the University of Castilla-La Mancha, Spain, where he leads the ALARCOS research group. Dr. Piattini is the author of several books and papers on databases, software engineering and information systems. He received his Ph.D. in computer science from the Politechnical University of Madrid, Spain, and is also a certified information system auditor and certified information system manager by the Information System Audit and Control Association.

New Release - October 2005

Fuzzy Databases: Modeling, Design & Implementation

— **Hard cover** ~~US\$89.95~~ **US\$62.97 h/c**
— **Soft cover** ~~US\$74.95~~ **US\$52.47 s/c**

* Shipping/handling \$ _____
PA residents add 6% sales tax \$ _____
TOTAL \$ _____

Within the US:

• UPS Ground (delivery within 5-7 days), add \$6.50 for a single book, \$12.00 for 2-10 books or \$20.00 for 11-20 books. If ordering more than 20 books, a company representative will contact you with a rate quote.

• Fed Ex (delivery within 4-6 business days), add \$12.50 for a single book, \$25.00 for 2-5 books, or \$37.50 for 6-10 books. *

Outside the US:

• All books will be sent via FedEx Int'l Economy (delivery within 4-6 business days), add US \$25.00 for a single book, \$50.00 for 2-5 books, or \$75.00 for 6-10 books. *

*If ordering more than 10 books, a company representative will contact you with a rate quote.

ORDER FORM

Name _____

Organization _____

Address _____

City/State/ZIP _____

Country _____

Telephone _____

Fax _____

E-Mail _____

METHOD OF PAYMENT:

- Enclosed is a check payable to Idea Group Inc.
 Please charge my VISA MC Am Ex

Account No. _____ Exp. date _____

Signature _____
3-digit security code (MC/Visa) on signature panel or 4-digit code (AmEx) on card front _____

- To have your organization invoiced for this order, please call Idea Group Inc.

Please send me your FREE IGI catalog

IDEA GROUP INC.

701 E. Chocolate Avenue, Suite 200
Hershey PA 17033-1240, USA
Tel: 717/533-8845 • Fax: 717/533-8661
E-mail: cust@idea-group.com
www.idea-group.com



Idea Group Publishing

an imprint of Idea Group Inc.

Visit our Website at www.idea-group.com to learn more about other publications in information technology.