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***Advanced Topics in
Database Research
is a series of books
on the fields of
database, software
engineering, and***

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Researcher

systems analysis and design. They feature the latest research ideas and topics on how to enhance current database systems, improve information storage, refine existing database models, and develop advanced applications.

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**Advanced Topics in
Database**

Research, Volume

5 is a part of this

series. Advanced

Topics in Database

Research, Volume

5 presents the

latest research

ideas and topics on

database systems

and applications,

and provides

insights into

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Protection

important developments in the field of database and database management. This book describes the capabilities and features of new technologies and methodologies, and presents state-of-the-art research ideas, with an

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***emphasis on
theoretical issues
regarding
databases and
database
management.***

***This book covers in
a great depth the
fast growing topic
of techniques,
tools and
applications of soft
computing in XML
data management.***

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It is shown how XML data management (like model, query, integration) can be covered with a soft computing focus. This book aims to provide a single account of current studies in soft computing approaches to XML data management.

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Distillium

***The objective of
the book is to
provide the state
of the art
information to
researchers,
practitioners, and
graduate students
of the Web
intelligence, and at
the same time
serving the
information
technology***

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***professional faced
with non-
traditional
applications that
make the
application of
conventional
approaches
difficult or
impossible.***

***In recent years,
the science of
managing and
analyzing large***

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datasets has emerged as a critical area of research. In the race to answer vital questions and make knowledgeable decisions, impressive amounts of data are now being generated at a rapid pace,

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increasing the opportunities and challenges associated with the ability to effectively analyze this data.

Comprising papers presented at an international symposium on fuzzy engineering technology, this volume provides

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***information on the
current state-of-
the-art in the field
of fuzzy theories
and applications,
and their
importance in the
areas of industry,
medicine, artificial
intelligence,
management,
socio-economics,
ecology,
agriculture,***

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**behavioural
science and
education. The
results of recent
research of LIFE
(Laboratory for
International Fuzzy
Engineering
Research) are also
included.**

**Database
Technologies:
Concepts,
Methodologies,**

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Tools, and

Applications

Analysis, Design &

Evaluation of Man-

Machine Systems

Third International

Conference,

FQAS'98, Roskilde,

Denmark, May

13-15, 1998,

Proceedings

How to Deal with

Crisp and Fuzzy

Data in Selection,

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**Classification, and
Summarization**

**5th East European
Conference, ADBIS
2001, Vilnius,
Lithuania**

**September 25-28,
2001 Proceedings
Flexible Databases
Supporting
Imprecision and
Uncertainty**

This volume is
dedicated to the

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memory of Professor
Ashley Morris who
passed away some
two years ago.

Ashley was a close
friend of all of us, the
editors of this
volume, and was also
a Ph.D. student of
one of us. We all had
a chance to not only
fully appreciate, and
be inspired by his
contributions, which

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have had a considerable impact on the entire research community. Due to our personal relations with Ashley, we also had an opportunity to get familiar with his deep thinking about the areas of his expertise and interests. Ashley has been involved since

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the very beginning of his professional career in database research and practice. Notably, he introduced first some novel solution in database management systems that could handle imprecise and uncertain data, and flexible queries based on imprecisely

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specified user
interests. He

proposed to use for
that purpose fuzzy
logic as an effective
and efficient tool.

Later the interests of
Ashley moved to
ways of how to
represent and
manipulate more
complicated
databases involving
spatial or temporal

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objects. In this research he discovered and pursued the power of Geographic Information Systems (GISs). These two main lines of Ashley's research interests and contributions are reflected in the composition of this volume. Basically, we collected some

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significant papers by well known researchers and scholars on the above mentioned topics. The particular contributions will now be briefly summarized to help the reader get a view of the topics covered and the contents of the particular contributions.

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Environmental information and systems play a major role in environmental decision making. As such, it is vital to understand the impact that they have on different aspects of sustainable environmental management, as well as to understand the

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opportunity they
might present for
further improvement.

Environmental
Information Systems:
Concepts,
Methodologies,
Tools, and
Applications is an
innovative reference
source containing
the latest research
on the use of
information systems

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to track and organize environmental data for use in an overall environmental management system. Highlighting a range of topics such as environmental analysis, remote sensing, and geographic information science, this multi-volume book is designed for

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engineers, data
scientists,
practitioners,
academicians, and
researchers
interested in all
aspects of
environmental
information systems.

Approximate
reasoning is a key
motivation in fuzzy
sets and possibility
theory. This volume

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provides a coherent view of this field, and its impact on database research and information retrieval. First, the semantic foundations of approximate reasoning are presented. Special emphasis is given to the representation of fuzzy rules and specialized types of

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approximate
reasoning. Then
syntactic aspects of
approximate
reasoning are
surveyed and the
algebraic
underpinnings of
fuzzy consequence
relations are
presented and
explained. The
second part of the
book is devoted to

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inductive and neuro-fuzzy methods for learning fuzzy rules. It also contains new material on the application of possibility theory to data fusion. The last part of the book surveys the growing literature on fuzzy information systems. Each chapter contains extensive

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bibliographical
material. Fuzzy Sets

in Approximate

Reasoning and

Information Systems

is a major source of

information for

research scholars

and graduate

students in computer

science and artificial

intelligence,

interested in human

information

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processing.

"This comprehensive
reference work

provides immediate,
fingertip access to
state-of-the-art
technology in nearly
700 self-contained
articles written by
over 900

international
authorities. Each
article in the
Encyclopedia

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features current developments and trends in computers, software, vendors, and applications...extensive bibliographies of leading figures in the field, such as Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions."

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Data Warehousing
and Mining:

Concepts,

Methodologies,

Tools, and

Applications

10th Portuguese

Conference on

Artificial

Intelligence, EPIA

2001, Porto,

Portugal, December

17-20, 2001.

Proceedings

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Multispace &
Multistructure.

Neutrosophic

Transdisciplinarity

(100 Collected

Papers of Science)

Proceedings of the ...

IEEE International

Conference on Fuzzy

Systems

Uncertainty

Approaches for

Spatial Data

Modeling and

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Relational Algebra
Processing
Fuzziness in
Database
Management
Systems

*This book constitutes
the proceedings of
the second
International
Workshop on
Advanced
Computational
Intelligence (IWACI
2009), with a sequel*

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of IWACI 2008 successfully held in Macao, China. IWACI 2009 provided a high-level international forum for scientists, engineers, and educators to present state-of-the-art research in computational intelligence and related fields. Over the past decades,

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*computational
intelligence*

community has

witnessed t-

mendous efforts and

developments in all

aspects of theoretical

foundations, archit-

tures and network

organizations,

modelling and

simulation, empirical

study, as well as a

wide range of

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applications across
different domains.

IWACI 2009 provided
a great platform for
the community to
share their latest
research results,
discuss critical future
research directions,
stimulate innovative
research ideas, as
well as facilitate
inter- tional
multidisciplinary

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collaborations.

IWACI 2009 received

146 submissions

from about 373

authors in 26

countries and

regions (Australia,

Brazil, Canada,

China, Chile, Hong

Kong, India, Islamic

Republic of Iran,

Japan, Jordan,

Macao, Malaysia,

Mexico, Pakistan,

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Philippines, Qatar, Republic of Korea, Singapore, South Africa, Sri Lanka, Spain, Taiwan, Thailand, UK, USA, Venezuela, Vietnam, and Yemen) across six continents (Asia, Europe, North America, South America, Africa, and Oceania). Based on the rigorous peer

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*reviews by the
Program Committee
members, 52 high-
quality papers were
selected for
publication in this
book, with an
acceptance rate of
36.3%. These papers
cover major topics of
the theoretical
research, empirical
study, and
applications of*

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Relational Algebra
*computational
intelligence.*

*This book constitutes
the thoroughly
refereed post-
workshop
proceedings of the
Third International
Conference on
Flexible Query
Answering Systems,
FQAS'98, held in
Roskilde, Denmark,
in May 1998. The 32*

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Relational Algebra

For Possibility

Distribution

revised papers presented were carefully reviewed and went through two rounds of selection for inclusion in the proceedings. This book is the first one focused on flexible query answering systems; this emerging area of research and

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development builds on results from mathematical logic, fuzzy logic, various database paradigms, information retrieval, linguistics, and human computer-interaction. The papers deal with issues occurring in querying databases and the Internet.

The Springer

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Handbook for Computational Intelligence is the first book covering the basics, the state-of-the-art and important applications of the dynamic and rapidly expanding discipline of computational intelligence. This comprehensive handbook makes

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readers familiar with a broad spectrum of approaches to solve various problems in science and technology. Possible approaches include, for example, those being inspired by biology, living organisms and animate systems.

Content is organized in seven parts:

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foundations; fuzzy
logic; rough sets;

evolutionary

computation; neural

networks; swarm

intelligence and

hybrid computational

intelligence systems.

Each Part is

supervised by its own

Part Editor(s) so that

high-quality content

as well as

completeness are

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Relational Algebra

assured.

This proceedings

book is the fourth

edition of a series of

works which features

emergent research

trends and recent

innovations related

to smart city

presented at the 5th

International

Conference on Smart

City Applications

SCA20 held in

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Safranbolu, Turkey.

This book is

composed of peer-

reviewed chapters

written by leading

international

scholars in the field

of smart cities from

around the world.

This book covers all

the smart city topics

including Smart

Citizenship, Smart

Education, Smart

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Security, Smart

Earth Environment &

Agriculture, Smart

Economy, Smart

Factory and Smart

Recognition Systems.

This book contains a

special section

intended for

Covid-19 pandemic

researches. This

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book edition is an invaluable resource for courses in computer science, electrical engineering and urban sciences for sustainable development.

*Innovations in Smart Cities Applications
Volume 4*

*Handbook of
Research on*

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Geographic

Information Systems

Applications and

Advancements

Advanced Topics in

Database Research,

Volume 5

Fuzzy Engineering

Toward Human

Friendly Systems

Recent Issues on

Fuzzy Databases

Fuzzy Databases

In recent years

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rough set theory
has attracted the

attention of many

researchers and

practitioners all

over the world, who

have contributed

essentially to its

development and

applications. We are

observing a growing

research interest in

the foundations of rou

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Distribution

ghsets, including the various logical, mathematical and philosophical aspects of rough sets. Some relationships have already been established between rough sets and other approaches, and also with a wide

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range of hybrid
systems. As a result,

rough sets are

linked with decision

system modeling

and analysis of

complex systems,

fuzzy sets, neural

networks,

evolutionary

computing, data

mining and

knowledge

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discovery, pattern recognition, machine learning, and approximate reasoning. In particular, rough sets are used in probabilistic reasoning, granular computing (including information granule calculi based on

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rough mereology),
intelligent control,

intelligent agent
Distribution

modeling,

identi?cation of

autonomous s-

tems, and process

speci?cation.

Methods based on

rough set theory

alone or in

combination with

other - proacheshav

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For Possibility

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has been discovered with a wide range of applications in such areas: acoustics, bioinformatics, business and finance, chemistry, computer engineering (e.g., data compression, digital image processing, digital signal processing,

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Distribution

p- allele and
distributed
computer systems,
sensor fusion,
fractal
engineering), de-
cision analysis and
systems,
economics,
electrical
engineering (e.g.,
control, signal
analysis, power

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systems),

environmental

studies, informatics,

medicine, mole- lar

biology,

musicology,

neurology, robotics,

social science,

software

engineering, spatial

visualization, Web

engineering, and

Web mining.

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This book constitutes the refereed proceedings of the 10th Portuguese Conference on Artificial Intelligence, EPTA 2001, held in Porto, Portugal, in December 2001. The 21 revised long papers and 18

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revised short
papers were
carefully reviewed
and selected from a
total of 88
submissions. The
papers are
organized in topical
sections on
extraction of
knowledge from
databases, AI
techniques for

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financial time series

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analysis, multi-

Distribution
agent systems, AI

logics and logic

programming,

constraint

satisfaction, and AI

planning.

"Addresses the

evolution of

database

management,

technologies and

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Relational Algebra

applications along
with the progress

and endeavors of

new research

areas."--P. xiii.

The volume

"Fuzziness in

Database

Management

Systems" is a highly

informative, well-

organized and up-

to-date collection

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Distribution

of contributions
authored by many
of the leading
experts in its field.

Among the
contributors are the
editors, Professors
Patrick Bose and
Janusz Kacprzyk,
both of whom are
known
internationally. The
book is like a movie

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with an all-star cast.

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Distribution

The issue of

fuzziness in

database

management

systems has a long

history. It begins in

1968 and 1971,

when I spent my

sabbatical leaves at

the IBM Research

Laboratory in San

Jose, California, as a

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visiting scholar.

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During these

periods I was

associated with Dr.

E.F. Codd, the father

of relational models

of database

systems, and came

in contact with the

developers of iBMs

System Rand SQL.

These associations

and contacts at a

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time when the
methodology of

relational models of

data was in its

formative stages,

made me aware of

the basic

importance of such

models and the

desirability of

extending them to

fuzzy database

systems and fuzzy

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query languages.

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This perception was reflected in my 1973 ffiM report

which led to the

paper on the

concept of a

linguistic variable

and later to the

paper on the

meaning

representation

language PRUF

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(Possibilistic
Relational Universal
Fuzzy). More

directly related to
database issues
during that period
were the theses of
my students V.

Tahani, J. Yang, A.
Bolour, M. Shen and
R. Sheng, and many
subsequent reports
by both graduate

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and undergraduate
students at

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Berkeley.

Handbook of

Research on Fuzzy

Information

Processing in

Databases

Encyclopedia of

Database

Technologies and

Applications

Modeling and

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Management of
Fuzzy Semantic RDF

Data
Distribution

Innovations in

Smart Cities

Applications Edition

3

Intelligent Systems

from Decision

Making to Data

Mining, Web

Intelligence and

Computer Vision

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Fuzzy Sets in
Approximate
Reasoning and
Information
Systems

Presents new
theoretical
developments &
results of realistic
applications of fuzzy
set theory
techniques to the

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control of physical,
engineering,

Distribution
socioeconomic,

medical diagnosis &
other systems.

Includes some

applications of

artificial

intelligence methods

to medical diagnosis

& therapy.

1. When I was asked

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by the editors of this book to write a foreword, I was seized by panic. Obviously, neither I am an expert in Knowledge Representation in Fuzzy Databases nor I could have been beforehand unaware that the

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book's contributors would be some of the most

outstanding

researchers in the

field. However,

Amparo Vila's

gentle insistence

gradually broke

down my initial

resistance, and

panic then gave way

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to worry. Which paving stones did I have at my disposal for making an entrance to the book? After thinking about it for some time, I concluded that it would be pretentious on my part to focus on the

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subjects which are dealt with directly in the contributions presented, and that it would instead be better to confine myself to making some general reflections on knowledge representation given by imprecise

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information using
fuzzy sets;

Distribution
reflections which

have been suggested
to me by some words
in the following
articles such as:
graded notions,
fuzzy objects,
uncertainty, fuzzy
implications, fuzzy
inference, empty

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intersection, etc.

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Distribution
This book highlights
original research

and recent advances

in various fields

related to smart

cities and their

applications. It

gathers papers

presented at the

Fourth

International

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Distribution

Conference on
Smart City
Applications

(SCA19), held on
October 2-4, 2019,
in Casablanca,
Morocco. Bringing
together
contributions by
prominent
researchers from
around the globe,

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the book offers an invaluable instructional and research tool for courses on computer science, electrical engineering, and urban sciences. It is also an excellent reference guide for professionals,

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researchers, and academics in the field of smart cities.

This book covers topics including:

- Smart Citizenship
- Smart Education
- Digital Business and Smart Governance
- Smart Health Care
- New Generation of

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Networks and
Systems for Smart
Cities • Smart Grids
and Electrical
Engineering •
Smart Mobility •
Smart Security •
Sustainable
Building •
Sustainable
Environment

"This book includes

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an introduction to fuzzy logic, fuzzy databases and an overview of the state of the art in fuzzy modeling in databases"--Provided by publisher.

The Proceedings of the 5th International Conference on

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Smart City
Applications

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A Decision Support

Perspective

Advances in

Probabilistic

Databases for

Uncertain

Information

Management

Foundations of

Intelligent Systems

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Relational Algebra
Concepts,
Methodologies,
Tools, and
Applications
Fuzzy Database
Modeling with XML

**This book
systemically
presents the
latest research
findings in fuzzy
RDF data**

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**modeling and
management.**

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Distribution

Fuzziness widely

exist in many

data and

knowledge

intensive

applications.

With the

increasing

amount of

metadata

available,

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**efficient and
scalable
management of
massive semantic
data with
uncertainty is of
crucial
importance. This
book goes to
great depth
concerning the
fast-growing
topic of**

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technologies and approaches of modeling and managing fuzzy metadata with Resource Description Framework (RDF) format. Its major topics include representation of fuzzy RDF data, fuzzy RDF graph

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**matching, query
of fuzzy RDF
data, and
persistence of
fuzzy RDF data in
diverse
databases. The
objective of the
book is to provide
the state-of-the-
art information to
researchers,
practitioners, and**

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**postgraduates
students who
work on the area
of big data
intelligence and
at the same time
serve as the
uncertain data
and knowledge
engineering
professional as a
valuable real-
world reference.**

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**This volume
contains the
papers selected
for presentation
at the 15th
International
Symposium on
Methodologies
for Intelligent
Systems, ISMIS
2005, held in
Saratoga Springs,
New York, 25-28**

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Relational Algebra

May, 2005.

This volume

offers the advice
of selected expert
contributors on
the application of
heterogeneous
methods for
managing
uncertainty and
imprecision in
databases. It
contains both

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**survey chapters
on classic topics
such as "flexible
querying in
databases", and
up to date
information on
"database models
to represent
imperfect data".
Further, it
includes specific
contributions on**

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Relational Algebra

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Distribution

**uncertainty
management in
database
integration, and
in representing
and querying
semistructured
and spatial data.
Fuzzy Database
Modeling with
XML aims to
provide a single
record of current**

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Relational Algebra

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Distribution

**research and
practical
applications in
the fuzzy
databases. This
volume is the
outgrowth of
research the
author has
conducted in
recent years.
Fuzzy Database
Modeling with**

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XML introduces state-of-the-art information to the database research, while at the same time serving the information technology professional faced with a non-traditional application that

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Distribution

defeats conventional approaches. The research on fuzzy conceptual models and fuzzy object-oriented databases is receiving increasing attention, in addition to fuzzy relational

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database models.

With rapid

advances in

network and

internet

techniques as

well, the

databases have

been applied

under the

environment of

distributed

information

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Distribution

systems. It is essential in this case to integrate multiple fuzzy database systems. Since databases are commonly employed to store and manipulate XML data, additional requirements are necessary to

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Distribution

**model fuzzy
information with
XML. Secondly,
this book maps
fuzzy XML model
to the fuzzy
databases. Very
few efforts at
investigating
these issues have
thus far occurred.
Fuzzy Database
Modeling with**

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Distribution

XML is designed for a professional audience of researchers and practitioners in industry. This book is also suitable for graduate-level students in computer science.

Fuzziness in

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**Information
Systems
Volume 21 -
Supplement 6:
ADA and
Distributed
Systems to Visual
Languages
Modeling,
Design, and
Implementation
Management
Decision Support**

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**Systems Using
Fuzzy Sets and
Possibility Theory
Flexible Query
Answering
Systems
The Proceedings
of the 4th
International
Conference on
Smart City
Applications**

This book covers a fast-

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growing topic in great depth and focuses on the technologies and applications of probabilistic data management. It aims to provide a single account of current studies in probabilistic data management. The objective of the book is to provide the state of the art information to researchers,

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*practitioners, and
graduate students of
information technology
of intelligent
information processing,
and at the same time
serving the information
technology professional
faced with non-
traditional applications
that make the
application of
conventional
approaches difficult or*

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impossible.
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*First of all, I would like
to congratulate*

*Gabriella Pasi and
Gloria Bordogna for
the work they
accomplished in
preparing this new book
in the series "Study in
Fuzziness and Soft
Computing". "Recent
Issues on the
Management of
Fuzziness in*

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Databases" is undoubtedly a token of their long-lasting and active involvement in the area of Fuzzy Information Retrieval and Fuzzy Database Systems. This book is really welcome in the area of fuzzy databases where they are not numerous although the first works at the crossroads of fuzzy sets

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and databases were initiated about twenty years ago by L. Zadeh. Only five books have been published since 1995, when the first volume dedicated to fuzzy databases published in the series "Study in Fuzziness and Soft Computing" edited by J. Kacprzyk and myself appeared. Going beyond books strictly

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speaking, let us also mention the existence of review papers that are part of a couple of handbooks related to fuzzy sets published since 1998. The area known as fuzzy databases covers a bunch of topics among which: -flexible queries addressed to regular databases, -the extension of the notion

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of a functional dependency, -data mining and fuzzy summarization, -querying databases containing imperfect attribute values represented thanks to possibility distributions. The proper management of geographic data can provide assistance to a number of different sectors within society.

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As such, it is imperative to continue advancing research for spatial data analysis. The Handbook of Research on Geographic Information Systems Applications and Advancements presents a thorough overview of the latest developments in effective management techniques for collecting,

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*processing, analyzing,
and utilizing*

*geographical data and
information.*

*Highlighting theoretical
frameworks and*

*relevant applications,
this book is an ideal*

*reference source for
researchers, academics,*

*professionals, and
students actively*

*involved in the field of
geographic information*

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systems.

"This book provides comprehensive coverage and definitions of the most important issues, concepts, trends, and technologies in fuzzy topics applied to databases, discussing current investigation into uncertainty and imprecision management by means of fuzzy sets and fuzzy

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logic in the field of databases and data mining. It offers a guide to fuzzy information processing in databases"--Provided by publisher.

Progress in Artificial Intelligence. Knowledge Extraction, Multi-agent Systems, Logic Programming, and Constraint Solving Proceedings of the

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Distributivity

***IFAC Symposium,
Marseille, France,
19-21 July 1983***

Principles and

Applications

Knowledge

Management in Fuzzy

Databases

Springer Handbook of

Computational

Intelligence

Fuzzy Information,

Knowledge

Representation, and

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Decision Analysis

Provides a valuable overview of human-machine interaction in technological systems, with particular emphasis on recent advances in theory, experimental and analytical research, and applications related to man-machine systems.

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Topics covered include: Automation and Operator - task analysis, decision support, task allocation, management decision support, supervisory control, artificial intelligence, training and teaching, expert knowledge; System Concept and Design

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**- software
ergonomics, fault
diagnosis, safety,
design concepts;
Man-machine
Interface - interface
design, graphics
and vision, user
adaptive interfaces;
Systems Operation -
process industry,
electric power,
aircraft, surface
transport,**

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***prostheses and
manual control.***

***Contains 53 papers
and three
discussion
sessions.***

***Research and
development
surrounding the use
of data queries is
receiving increased
attention from
computer scientists
and data specialists***

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alike. Through the use of query technology, large volumes of data in databases can be retrieved, and information systems built based on databases can support problem solving and decision making across industries. The Handbook of

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Research on Innovative Database Query Processing Techniques focuses on the growing topic of database query processing methods, technologies, and applications. Aimed at providing an all-inclusive reference source of technologies and

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practices in advanced database query systems, this book investigates various techniques, including database and XML queries, spatiotemporal data queries, big data queries, metadata queries, and applications of database query systems. This

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comprehensive handbook is a necessary resource for students, IT professionals, data analysts, and academicians interested in uncovering the latest methods for using queries as a means to extract information from databases. This all-

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***inclusive handbook
includes the latest
research on topics
pertaining to
information
retrieval, data
extraction, data
management,
design and
development of
database queries,
and database and
XM queries.***

"This reference

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***expands the field of
database
technologies
through four-
volumes of in-depth,
advanced research
articles from nearly
300 of the world's
leading professional
s"--Provided by
publisher.***

***This is an eclectic
tome of 100 papers
in various fields of***

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sciences,

alphabetically listed,

such as: astronomy,

biology, calculus,

chemistry, computer

programming

codification,

economics and

business and

politics, education

and administration,

game theory,

geometry, graph

theory, information

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***fusion, neutrosophic
logic and set, non-
Euclidean geometry,
number theory,
paradoxes,
philosophy of
science,
psychology,
quantum physics,
scientific research
methods, and
statistics ¿
containing 800
pages.It was my***

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preoccupation and collaboration as author, co-author, translator, or co-translator, and editor with many scientists from around the world for long time. Many ideas from this book are to be developed and expanded in future explorations.

Fuzzy Database

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***Modeling of
Imprecise and
Uncertain
Engineering
Information
4th International
Conference, RSCTC
2004, Uppsala,
Sweden, June 1-5,
2004, Proceedings
Soft Computing in
XML Data
Management
15th International***

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Symposium ISMIS

2005, Saratoga

Springs, NY, USA,

May 25-28, 2005,

Proceedings

Rough Sets and

Current Trends in

Computing

Encyclopedia of

Computer Science

and Technology

This book is an

essential

contribution to

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the description of fuzziness in information systems. Usually users want to retrieve data or summarized information from a database and are interested in classifying it or building rule-based systems on it.

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But they are often not aware of the nature of this data and/or are unable to determine clear search criteria. The book examines theoretical and practical approaches to fuzziness in information

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systems based on statistical data related to territorial units. Chapter 1 discusses the theory of fuzzy sets and fuzzy logic to enable readers to understand the information presented in the book. Chapter 2

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Disjunction

is devoted to flexible queries and includes issues like constructing fuzzy sets for query conditions, and aggregation operators for commutative and non-commutative conditions, while Chapter 3

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***focuses on
linguistic
summaries.***

Chapter 4

***presents fuzzy
logic control
architecture
adjusted***

***specifically for
the aims of
business and
governmental
agencies, and
shows fuzzy***

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*rules and
procedures for
solving*

inference tasks.

*Chapter 5 covers
the*

*fuzzification of
classical*

relational

databases with

an emphasis on

storing fuzzy

data in

classical

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***relational
databases in
such a way that
existing data
and normal forms
are not
affected. This
book also
examines
practical
aspects of user-
friendly
interfaces for
storing,***

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***updating,
querying and
summarizing.***

***Lastly, Chapter
6 briefly
discusses***

***possible
integration of
fuzzy queries,***

***summarization
and inference***

***related to crisp
and fuzzy***

databases. The

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main target audience of the book is researchers and students working in the fields of data analysis, database design and business intelligence. As it does not go too deeply into the foundation and mathematical

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***theory of fuzzy
logic and
relational
algebra, it is
also of interest
to advanced
professionals
developing
tailored
applications
based on fuzzy
sets.***

***This volume
presents the***

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results of approximately 15 years of work from researchers around the world on the use of fuzzy set theory to represent imprecision in databases. The maturity of the research in the discipline and the recent

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**developments in
commercial/indus
trial fuzzy
databases
provided an
opportunity to
produce this
survey. In this
introduction we
will describe
briefly how
fuzzy databases
fit into the
overall design**

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of database systems and then overview the organization of the text. FUZZY DATABASE LANDSCAPE The last five years have been witness to a revolution in the database research community. The

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dominant data models have changed and the consensus on what constitutes worthwhile research is in flux. Also, at this time, it is possible to gain a perspective on what has been accomplished in the area of

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fuzzy databases.

Therefore, now

is an opportune

time to take

stock of the

past and

establish a

framework. A

framework should

assist in

evaluating

future research

through a better

understanding of

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the different aspects of imprecision that a database can model [1]. Computer-based information technologies have been extensively used to help industries manage their processes and

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information

systems hereby -
come their

nervous center.

More specially,

databases are

designed to s-

port the data

storage,

processing, and

retrieval

activities

related to data
management in

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**information
systems.**

**Database
management**

systems provide

efficient task

support and

database systems

are the key to

imple- ing

industrial data

management.

Industrial data

management

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**requires da-
base technique
support.**

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**Industrial
applications,
however, are
typically data
and knowledge
intensive
applications and
have some unique
character- tics
that makes their
management**

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difficult.

Besides, some

new techniques

such as Web,

artificial

intelligence,

and etc. have

been introduced

into - dustrial

applications.

These unique

characteristics

and usage of new

te- nologies

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***have put many
potential
requirements on
industrial data
mana- ment,
which challenge
today's database
systems and
promote their
evolvment.
Viewed from
database
technology,
information***

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Identification

***modeling in
databases can be
identified at
two levels:
(conceptual)
data modeling
and (logical)
database
modeling. This
results in
conceptual
(semantic) data
model and
logical database***

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***model. Generally
a conceptual
data model is
designed and
then the
designed
conceptual data
model will be
transformed into
a chosen logical
database schema.
Database systems
based on logical
database model***

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**are used to
build**

information

**systems for data
mana-**

**ment. Much
attention has**

**been directed at
conceptual data**

**modeling of -
dustrial**

information

**systems. Product
data models, for**

example, can be

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***views as a class
of semantic data
models (i. e.***

***The book
addresses the
impact of
ambient
intelligence,
particularly its
user-centric con
text-awareness
requirement on
data management
strategies and***

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solutions.

Techniques of

conceptualizing,

capturing,

protecting,

modelling, and

querying context

information, as

well as context-

aware data

management

application are

discussed,

making the book

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***is an essential
reference for
computer
scientists,
information
scientists and
industrial
engineers.***

***Proceedings of
the 2nd IFAC/IFI
P/IFORS/IEA
Conference,
Verese, Italy,
10-12 September***

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1985

***Advances in
Databases and
Information
Systems***

***Context-Aware
Computing***

***Advances in
Computational
Intelligence***

***Handbook of
Research on
Innovative***

Database Query

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***Processing
Techniques
Environmental
Information
Systems:
Concepts,
Methodologies,
Tools, and
Applications***

This book
constitutes the
refereed
proceedings of

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the 5th East
European
Conference on
Advances in
Databases and
Information
Systems, ADBIS
2001, held in
Vilnius,
Lithuania, in
September
2001. The 25

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revised full
papers
presented
together with
one invited
paper and two
abstracts of
invited talks
were carefully
reviewed and
selected from 82
submissions.

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The papers are organized in topical sections on query optimization, multimedia and multilingual information systems, spatiotemporal aspects of databases, data

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mining,
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transaction
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processing,
conceptual
modeling and
information
systems
specification,
active
databases,
query methods,
XML, and

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systems design.
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