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reasoning usually is
very approximate and
involves various types
of - certainties.

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reasoning is the
computational
modelling of any part
of the process used
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techniques inspired
by biological
elements such as
nervous systems,
immune systems and
genetics have been
used in data mining.
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particularly in sensor
devices, databases
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and distributed
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systems, are leading
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to an exponential
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growth in the amount
Intelligence
of data stored in
databases.

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Theoretical

Foundations and
Applications Finding
information hidden in
data is as
theoretically difficult
as it is practically
important. With the
objective of
discovering unknown
patterns from data,

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the methodologies of data mining were derived from statistics, machine learning, and artificial intelligence, and are being used successfully in application areas such as bioinformatics, business, health care, banking, retail, and many others.

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Advanced
representation
schemes and
computational
intelligence
techniques such as
rough sets, neural
networks; decision
trees; fuzzy logic;
evolutionary
algorithms; arti- cial
immune systems;
swarm intelligence;
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learning, association rule mining, Web intelligence paradigms etc. have proved valuable when they are - plied to Data Mining problems.

Computational tools or solutions based on intel- gent systems are being used with great success in Data Mining applications.

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It is also observed that strong scientific advances have been made when issues from different research areas are integrated. This Volume comprises of 15 chapters including an overview chapter providing an up-to-date and state-of-the-research on the applications of

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Computational Intelligence techniques for
Data Mining. The
book is divided into 3
parts: Part-I: Data
Click Streams and
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on Data Click Streams
and Temporal Data
Mining contains four
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several approaches in
Data Click Streams
and Temporal Data
Mining.

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Recent years have
seen numerous
applications across a
variety of fields using
various techniques of
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Intelligence. This
book, one of a series
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Computational
Intelligence, is
focused on learning
and approximation.

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reasoning usually is

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very approximate and involves various types of - certainties.

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fuzzy sets, Dempster-Shafer theory, multi-valued logic, probability, random sets, and rough set, near set and hybrid intelligent systems. Besides research articles and expository papers on theory and algorithms of approximation reasoning, papers on numerical

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experimental and real
world applications
were also

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Theoretical
Foundations contains
four chapters that
describe several
approaches of fuzzy
and Para consistent
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reasoning. In Chapter
1, “Fuzzy Sets, Near
Sets, and Rough Sets
for Your
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Toolbox” by Peters considers how a user might utilize fuzzy sets, near sets, and rough sets, taken separately or taken together in hybridizations as part of a computational intelligence toolbox. In multi-criteria decision making, it is necessary to aggregate (combine)

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utility values
corresponding to
several criteria
(parameters).

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Approximation and
Classification

Approximation theory
is that area of
analysis which is

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Concerned with the ability to approximate functions by simpler and more easily calculated functions.

It is an area which, like many other fields of analysis, has its primary roots in the mathematics. The need for function approximation and classification arises in many branches of

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applied mathematics,
computer science and
data mining in
particular. This edited
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ters,
which provides an up-
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the art research
covering the theory
and algorithms of
function

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1 “ Feature Selection
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investigate a

systematic feature
reduction framework
by combing

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dimension reduction
with feature selection.

To evaluate the
proposed framework
authors used four
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advances in the
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technology,
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devices, databases
and distributed
systems, are leading
to an exponential
growth in the amount
of data stored in
databases. It has been
estimated that this
amount doubles every

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20 years. For some applications, this increase is even steeper. Databases storing DNA sequence, for example, are doubling their size every 10 months. This growth is occurring in several applications areas besides bioinformatics, like financial transactions,

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government data,
environmental mo-
toring, satellite and
medical images,
security data and
web. As large
organizations
recognize the high
value of data stored
in their databases and
the importance of
their data collection
to support decision-
making, there is a

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clear demand for-
phisticated Data
Mining tools. Data
mining tools play a
key role in the
extraction of useful
knowledge from
databases. They can
be used either to
confirm a parti- lar
hypothesis or to
automatically find
patterns. In the
second case, which is

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-lated to this book,
the goal may be
either to describe the
main patterns present
in dataset, what is
known as descriptive
Data Mining or to find
patterns able to p-
dict behaviour of
specific attributes or
features, known as
predictive Data
Mining. While the
first goal is associated

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with tasks like
clustering,
summarization and
association, the
second is found in
classification and
regression problems.

Global optimization is
a branch of applied
mathematics and
numerical analysis
that deals with the
task of finding the

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absolutely best set of
admissible conditions
to satisfy certain
criteria / objective
function(s),
formulated in
mathematical terms.
Global optimization
includes nonlinear,
stochastic and
combinatorial
programming,
multiobjective
programming,

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Control, games,
geometry,
approximation,
algorithms for
parallel architectures
and so on. Due to its
wide usage and
applications, it has
gained the attention
of researchers and
practitioners from a
plethora of scientific
domains. Typical
practical examples of

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global optimization applications include: Traveling salesman problem and electrical circuit design (minimize the path length); safety engineering (building and mechanical structures); mathematical problems (Kepler conjecture); Protein structure prediction

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(minimize the energy function) etc. Global Optimization

algorithms may be categorized into several types:

Deterministic

(example: branch and bound methods),

Stochastic optimization

(example: simulated annealing). Heuristics and meta-heuristics

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(example: computational
evolutionary
intelligence
algorithms) etc.

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experiments and on
real world
applications were also
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Approximation theory

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investigate a

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reduction framework
by combining
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with feature selection.

To evaluate the
proposed framework
authors used four
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a branch of applied
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that deals with the

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task of finding the
absolutely best set of
admissible conditions
to satisfy certain
criteria / objective
function(s),
formulated in
mathematical terms.

Global optimization
includes nonlinear,
stochastic and
combinatorial
programming,
multiobjective

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programming,
control, games,
geometry,
approximation,
algorithms for
parallel architectures
and so on. Due to its
wide usage and
applications, it has
gained the attention
of researchers and
practitioners from a
plethora of scientific
domains. Typical

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practical examples of
global optimization
applications include:
Traveling salesman
problem and
electrical circuit
design (minimize the
path length); safety
engineering (building
and mechanical
structures);
mathematical
problems (Kepler
conjecture); Protein

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structure prediction
(minimize the energy
function) etc. Global
Optimization

algorithms may be
categorized into
several types:

Deterministic
(example: branch and
bound methods),

Stochastic
optimization
(example: simulated
annealing). Heuristics

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and meta-heuristics

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advances in the
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particularly in sensor
devices, databases
and distributed

systems, are leading
to an exponential
growth in the amount
of data stored in
databases. It has been
estimated that this

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amount doubles every
20 years. For some
applications, this
increase is even
steeper. Databases
storing DNA
sequence, for
example, are doubling
their size every 10
months. This growth
is occurring in several
applications areas
besides
bioinformatics, like

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financial transactions,
government data,
environmental mo-
toring, satellite and
medical images,
security data and
web. As large
organizations
recognize the high
value of data stored
in their databases and
the importance of
their data collection
to support decision-

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making, there is a clear demand for - sophisticated Data Mining tools. Data mining tools play a key role in the extraction of useful knowledge from databases. They can be used either to confirm a parti- lar hypothesis or to automatically find patterns. In the

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second case, which is related to this book, the goal may be either to describe the main patterns present in dataset, what is known as descriptive Data Mining or to find patterns able to predict behaviour of specific attributes or features, known as predictive Data Mining. While the

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first goal is associated with tasks like clustering, summarization and association, the second is found in classification and regression problems.

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