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Series

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The two-volume set

Data Mining And

LNCS 9981 and 9982

Knowledge

constitutes the refereed

proceedings of the 15th

Discovery Series

International Semantic

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Mining Use Cases
Web Conference, ISWC
And Business
2016, which was held in
Kobe, Japan, in October
2016. The 75 full papers
presented in these
proceedings were
carefully reviewed and
selected from 326
submissions. The
International Semantic
Web Conference is the
premier forum for
Semantic Web research,
where cutting edge

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scientific results and
And Business
technological
Applications
innovations are
Chapman Hall
presented, where
Data Mining And
problems and solutions
Knowledge
are discussed, and
Discovery Series
where the future of this
vision is being
developed. It brings
together specialists in
fields such as artificial
intelligence, databases,
social networks,
distributed computing,

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Web engineering,
information systems,
human-computer
interaction, natural
language processing,
and the social sciences.
The Research Track
solicited novel and
significant research
contributions addressing
theoretical, analytical,
empirical, and practical
aspects of the Semantic
Web. The Applications

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Track solicited submissions exploring the benefits and challenges of applying semantic technologies in concrete, practical applications, in contexts ranging from industry to government and science.

The newly introduced Resources Track sought submissions providing a concise and clear description of a resource

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Mining Use Cases
and its (expected) usage.
And Business
Traditional resources
Applications
include ontologies,
Vocabularies
vocabularies, datasets,
benchmarks and
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replication studies,
Data Mining And
services and software.
Knowledge
Besides more
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established types of
resources, the track
solicited submissions of
new types of resources
such as ontology design
patterns, crowdsourcing

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task designs, workflows,
methodologies, and
protocols and measures.
The world contains an
unimaginably vast
amount of digital
information which is
getting ever vaster ever
more rapidly. This
makes it possible to do
many things that
previously could not be
done: spot business
trends, prevent diseases,

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combat crime and so on.
And Business
Managed well, the
textual data can be used
Applications
to unlock new sources
of economic value,
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provide fresh insights
Data Mining And
into science and hold
Knowledge
governments to account.
Discovery Series
As the Internet expands
and our natural capacity
to process the
unstructured text that it
contains diminishes, the
value of text mining for

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information retrieval
And Business
and search will increase
Applications
dramatically. This
comprehensive
professional reference
brings together all the
Data Mining And
information, tools and
Knowledge
methods a professional
Discovery Series
will need to efficiently
use text mining
applications and
statistical analysis. The
Handbook of Practical
Text Mining and

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Mining Use Cases
Statistical Analysis for
Non-structured Text
Data Applications

presents a comprehensive how- to reference that shows the user how to conduct text mining and statistically analyze results. In addition to providing an in-depth examination of core text mining and link detection tools, methods and operations,

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Analytics
Applications
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Data Mining And
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the book examines advanced preprocessing techniques, knowledge representation considerations, and visualization approaches. Finally, the book explores current real-world, mission-critical applications of text mining and link detection using real world example tutorials in such varied fields as

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corporate, finance,
And Business
business intelligence,
Analytics
genomics research, and
Applications
counterterrorism
activities. -Extensive
Chapman Hall
case studies, most in a
Data Mining And
tutorial format, allow
Knowledge
the reader to 'click
Discovery Series
through' the example
using a software
program, thus learning
to conduct text mining
analyses in the most
rapid manner of learning

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Mining Use Cases
possible -Numerous
And Business
examples, tutorials,
Analytics
power points and
Applications
datasets available via
companion website on
Chapter 11
Elsevierdirect.com
Data Mining And
-Glossary of text mining
Knowledge
terms provided in the
Discovery Series
appendix

From the Foreword:

"While large-scale
machine learning and
data mining have greatly
impacted a range of

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commercial
And Business
applications, their use in
the field of Earth
sciences is still in the
early stages. This book,
edited by Ashok
Srivastava,
Ramakrishna Nemani,
and Karsten
Steinhaeuser, serves as
an outstanding resource
for anyone interested in
the opportunities and
challenges for the

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Mining Use Cases
machine learning
And Business
community in analyzing
Analytics
these data sets to answer
Applications
questions of urgent
societal interest...I hope
Chapman Hall
that this book will
Data Mining And
inspire more computer
Knowledge
scientists to focus on
Discovery Series
environmental
applications, and Earth
scientists to seek
collaborations with
researchers in machine
learning and data

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mining to advance the
frontiers in Earth
sciences." --Vipin

Kumar, University of
Minnesota Large-Scale
Machine Learning in the
Earth Sciences provides
researchers and
practitioners with a
broad overview of some
of the key challenges in
the intersection of Earth
science, computer
science, statistics, and

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related fields. It explores a wide range of topics and provides a compilation of recent research in the application of machine learning in the field of Earth Science. Making predictions based on observational data is a theme of the book, and the book includes chapters on the use of network science to

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And Business
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understand and discover
teleconnections in
extreme climate and
weather events, as well
as using structured
estimation in high
dimensions. The use of
ensemble machine
learning models to
combine predictions of
global climate models
using information from
spatial and temporal
patterns is also

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And Business
Analytics

explored. The second
part of the book features
a discussion on

Applications
statistical downscaling
in climate with state-of-
the-art scalable machine
learning, as well as an
overview of methods to
understand and predict

Chapter 11
Data Mining And
Knowledge
Discovery Series

the proliferation of
biological species due to
changes in
environmental

conditions. The problem

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of using large-scale machine learning to study the formation of tornadoes is also explored in depth. The last part of the book covers the use of deep learning algorithms to classify images that have very high resolution, as well as the unmixing of spectral signals in remote sensing images of land

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cover. The authors also
apply long-tail

distributions to

geoscience resources, in
the final chapter of the
book.

Gathering the
Proceedings of the 2018
Intelligent Systems

Conference (IntelliSys
2018), this book offers a
remarkable collection of
chapters covering a
wide range of topics in

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intelligent systems and
computing, and their
real-world applications.

The Conference
attracted a total of 568
submissions from
pioneering researchers,
scientists, industrial
engineers, and students
from all around the
world. These
submissions underwent
a double-blind peer
review process, after

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which 194 (including 13 poster papers) were selected to be included in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have made it possible to tackle many problems more effectively. This branching out of

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computational
And Business
intelligence in several
Analytics
directions, and the use
Applications
of intelligent systems in
everyday applications,
Chapman Hare
have created the need
Data Mining And
for such an international
Knowledge
conference, which
Discovery Series
serves as a venue for
reporting on cutting-
edge innovations and
developments. This
book collects both
theory and application-

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based chapters on all aspects of artificial intelligence, from classical to intelligent scope. Readers are sure to find the book both interesting and valuable, as it presents state-of-the-art intelligent methods and techniques for solving real-world problems, along with a vision of future research directions.

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Big Data Analytics and
Artificial Intelligence in
the Healthcare Industry
4th International
Chapman Hallcra
Conference, DMBD
Data Mining And
2019, Chiang Mai,
Knowledge
Thailand, July 26–30,
Discovery Series
2019, Proceedings
Computational Business
Analytics
15th International
Conference on Soft
Computing Models in

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Industrial and
Environmental
Applications (SOCO
2020)

Concepts, Techniques,
and Applications with
XLMiner
Data Science

*A step-by-step
guide to data
mining
applications in
CRM. Following*

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Mining Use Cases
a handbook
And Business
Analytics, *this*
book bridges
the gap between
analytics and
their use in
everyday
marketing,
providing
guidance on
solving real
business
problems using

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data mining
And Business
techniques. The
Analytics
book is
Applications
organized into
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three parts.
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Part one
Knowledge
provides a
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methodological
roadmap,
covering both
the business
and the
technical

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Data Mining And
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*aspects. The
data mining
process is
presented in
detail along
with specific
guidelines for
the development
of optimized
acquisition,
cross/ deep/ up
selling and
retention*

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well as
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schemes. In
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part two, some
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of the most
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useful data
mining
algorithms are
explained in a
simple and

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comprehensive
And Business
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Analytics
business users
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with no
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technical
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expertise. Part
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three is packed
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with real world
case studies
which employ
the use of
three leading
data mining

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Analytics
RapidMiner and
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Industries
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banking, retail
and telecommuni
cations are
presented in
detail so as to

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serve as
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are presented
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demystifying

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the usage of
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models and
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issues. Topics
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three leading
data mining
tools: IBM SPSS
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each case
study,
including
datasets and
relevant code.
Combining data

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mining and
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business
Analytics,
knowledge, this
Applications
practical book
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provides all
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the necessary
Knowledge
information for
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designing,
setting up,
executing and
deploying data
mining
techniques in

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CRM. *Effective*
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CRM using
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Predictive
Applications will
benefit data
mining
practitioners
and
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consultants,
data analysts,
statisticians,
and CRM
officers. The

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book will also
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be useful to
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mining.
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in data science

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and data
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both academic
Applications
and business
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The aim is to
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main concepts
used in data
science using
tools developed
in Python, such

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as SciKit-
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learn, Pandas,
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Numpy, and
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others. The use
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of Python is of
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particular
interest, given
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its recent
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popularity in
the data
science
community. The
book can be

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used by
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seasoned
Analytics
programmers and
Applications
newcomers
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alike. The book
is organized in
a way that
individual
chapters are
sufficiently
independent
from each other
so that the

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reader is
comfortable
using the
contents as a
reference. The
book discusses
what data
science and
analytics are,
from the point
of view of the
process and
results

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obtained.
And Business
Important
Analytics
features of
Applications
Python are also
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covered,
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The basic
elements of
machine
learning,
pattern
recognition,

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and artificial
intelligence
Analytics
that underpin
the algorithms
and
implementations
used in the
rest of the
book also
appear in the
first part of
the book.

Regression

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*analysis using
And Business
Python,
Analytics
clustering
Applications,
techniques, and
Classification
algorithms are
covered in the
second part of
the book.*

*Hierarchical
clustering,
decision trees,
and ensemble*

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techniques are
And Business
also explored,
Analytics
along with
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systems. The
support vector
machine
algorithm and
the Kernel
trick are

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the last part
Analytics
of the book.
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scientist with
experience in
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companies such

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science, and
optimization in
a wide range of
applications*

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Discovery in
Databases (KDD)
is a research
field concerned
with deriving
higher-level

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insights from
data. The tasks
performed in
this field are
knowledge
intensive and
can benefit
from additional
knowledge from
various
sources, so
many approaches
have been

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*proposed that
combine
Semantic Web
data with the
data mining and
knowledge
discovery
process. This
book,
Exploiting
Semantic Web
Knowledge
Graphs in Data*

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Mining, aims to
And Business
show that
Analytics
Semantic Web
Applications
knowledge
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graphs are
Data Mining And
useful for
Knowledge
generating
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valuable data
mining features
that can be
used in various
data mining
tasks. In Part

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I, Mining
And Business
Semantic Web
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Graphs, the
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evaluates And
Unsupervised
feature Series
generation
strategies from
types and
relations in
knowledge

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Classification,
regression, and
outlier
detection. Part
II, Semantic
Web Knowledge
Graphs
Embeddings,
proposes an

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Data Mining I, And
Knowledge
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approach that
circumvents the
shortcomings
introduced with
the approaches
in Part I, And
developing an
approach that
is able to
embed complete
Semantic Web
knowledge
graphs in a low

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dimensional
And Business
feature space
Analytics
where each
Applications
entity and
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relation in the
Data Mining And
knowledge graph
is represented
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as a numerical
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vector.

Finally, Part
III,
Applications of
Semantic Web

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Graphs,
Analytics
describes a
list of
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knowledge
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graphs like
classification
and regression,
showing that
the approaches

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developed in
And Business
Part I and Part
Analytics
II can be used
Applications
in applications
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in various
Data Mining And
domains. The
Knowledge
book will be of
Discovery Series
interest to all
those working
in the field of
data mining and
KDD.

RapidMinerData

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*International
symposium*

Symorg 2016

DATA MINING

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Mining Use Cases
**AND MACHINE
LEARNING
APPLICATIONS**

*The book
elaborates in detail
on the current
needs of data
mining and
machine learning
and promotes
mutual
understanding
among research in
different*

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**disciplines, thus
facilitating
research
development and
collaboration.
Data, the latest
currency of today's
world, is the new
gold. In this new
form of gold, the
most beautiful
jewels are data
analytics and
machine learning.**

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***Data mining and
machine learning
are considered
interdisciplinary
fields. Data mining
is a subset of data
analytics and
machine learning
involves the use of
algorithms that
automatically
improve through
experience based
on data. Massive***

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*datasets can be
classified and
clustered to obtain
accurate results.
The most common
technologies used
include
classification and
clustering
methods. Accuracy
and error rates are
calculated for
regression and
classification and*

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And Business
Analytics
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Knowledge
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***clustering to find
actual results
through algorithms
like support vector
machines and
neural networks
with forward and
backward
propagation.
Applications
include fraud
detection, image
processing,
medical diagnosis,***

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Mining Use Cases
*weather prediction,
e-commerce and so
forth. The book
features: A review
of the state-of-the-
art in data mining
and machine
learning, A review
and description of
the learning
methods in human-
computer
interaction,
Implementation*

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**strategies and
future research
directions used to
meet the design
and application
requirements of
several modern
and real-time
applications for a
long time, The
scope and
implementation of
a majority of data
mining and**

Read Free
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**machine learning
strategies. A
discussion of real-
time problems.
Audience Industry
and academic
researchers,
scientists, and
engineers in
information
technology, data
science and
machine and deep
learning, as well as**

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Mining Use Cases
**artificial
intelligence more
broadly.**

**We live in a world
that generates
tremendous
amounts of data-
more than ever
before. In
business, and in
our personal lives,
we use
smartphones and
tablets, web sites**

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Mining Use Cases
*and watches; with
dozens of apps and
interfaces to shop,
learn, entertain
and inform.
Businesses
increasingly use
technology to
interact with
consumers to
provide marketing,
customer service,
product
information and*

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And Business
Applications
Applications
Chapman Hance
Data Mining And
Knowledge
Discovery Series

more. All of this technological activity generates data-data that can be useful in many ways. Data mining can help to identify interesting patterns and messages that exist, often hidden beneath the surface. In this modern age of

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Mining Use Cases
information
And Business
systems, it is easier
than ever before to
extract meaning
from data. From
classification to
prediction, data
mining can help. In
Data Mining for
the Masses, Second
Edition, professor
Matt North-a
former risk analyst
and software

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Mining Use Cases
**engineer at eBay-
uses simple
examples and clear
explanations with
free, powerful
software tools to
teach you the
basics of data
mining. In this
Second Edition,
implementations of
these examples are
offered in both an
updated version of**

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***the RapidMiner
software, and in
the popular R
Statistical
Package. You've
got more data than
ever before and
you know it's got
value, if only you
can figure out how
to get to it. This
book can show you
how. Let's start
digging! Author's***

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And Business
Applications
Chapman, Francis
Data Mining And
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*Data Preprocessing for
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*Data directly taken from
the source will likely
have inconsistencies,*

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errors or most importantly, it is not ready to be considered for a data mining process. Furthermore, the increasing amount of data in recent science, industry and business applications, calls to the requirement of more complex tools to analyze it. Thanks to data preprocessing, it is possible to convert the

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algorithm. Data
preprocessing includes
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Techniques and
Applications in Python