

Access Free
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Spotfire Tutorial

Current Trends and
Advances in
Computer-Aided
Intelligent
Environmental Data
Engineering merges
computer engineering
and environmental
engineering. The
book presents the

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latest finding on how data science and AI-based tools are being applied in environmental engineering research. This application involves multiple domains such as data science and artificial intelligence to transform the data collected by intelligent sensors into relevant

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and reliable information to support decision-making.

These tools include fuzzy logic, knowledge-based systems, particle swarm optimization, genetic algorithms, Monte Carlo simulation, artificial neural networks, support vector machine, boosted

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regression tree,
simulated annealing,
ant colony algorithm,
decision tree, immune
algorithm, and
imperialist competitive
algorithm. This book
is a fundamental
information source
because it is the first
book to present the
foundational
reference material in
this new research

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field. Furthermore, it gives a critical overview of the latest cross-domain research findings and technological developments on the recent advances in computer-aided intelligent environmental data engineering. Captures the application of data science and artificial

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intelligence for a broader spectrum of environmental engineering problems Presents methods and procedures as well as case studies where state-of-the-art technologies are applied in actual environmental scenarios Offers a compilation of essential and critical

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reviews on the application of data science and artificial intelligence to the entire spectrum of environmental engineering

This timely new publication examines the notion of computer as medium and what such an idea might mean for education. The

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Knowledge Medium:
Designing Effective
Computer-Based
Educational Learning
Environments
suggests that the
understanding of
computers as a
medium may be a key
to re-envisioning
educational
technology. Because
the subject is
interdisciplinary,

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combining science with the humanities, the theoretical discussion draws from a broad range of disciplines: psychology, educational theory, film criticism, and computer science. The definitive guide for statisticians and data scientists who understand the

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advantages of becoming proficient in both R and Python. The first book of its kind, Python for R Users: A Data Science Approach makes it easy for R programmers to code in Python and Python users to program in R. Short on theory and long on actionable analytics, it provides

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readers with a detailed comparative introduction and overview of both languages and features concise tutorials with command-by-command translations—complete with sample code—of R to Python and Python to R. Following an introduction to both languages, the author

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cuts to the chase with step-by-step coverage of the full range of pertinent programming features and functions, including data input, data inspection/data quality, data analysis, and data visualization. Statistical modeling, machine learning, and data mining—including

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supervised and unsupervised data mining methods—are treated in detail, as are time series forecasting, text mining, and natural language processing.

- Features a quick-learning format with concise tutorials and actionable analytics
- Provides command-by-command

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translations of R to Python and vice versa

- Incorporates Python and R code throughout to make it easier for readers to compare and contrast features in both languages
- Offers numerous comparative examples and applications in both programming

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languages • Designed for use for practitioners and students that know one language and want to learn the other • Supplies slides useful for teaching and learning either software on a companion website

Python for R Users: A Data Science Approach is a

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valuable working resource for computer scientists and data scientists that know R and would like to learn Python or are familiar with Python and want to learn R. It also functions as textbook for students of computer science and statistics. A. Ohri is the founder of Decisionstats.com

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and currently works as a senior data scientist. He has advised multiple startups in analytics off-shoring, analytics services, and analytics education, as well as using social media to enhance buzz for analytics products. Mr. Ohri's research interests include spreading

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open source
analytics, analyzing
social media
manipulation with
mechanism design,
simpler interfaces for
cloud computing,
investigating climate
change and
knowledge flows. His
other books include R
for Business Analytics
and R for Cloud
Computing.

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This book teaches fundamentals of stream processing, covering application design, distributed systems infrastructure, and continuous analytic algorithms.

Fitting Models to
Biological Data Using
Linear and Nonlinear
Regression

Human-Centered AI

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Current Trends and
Advances in
Computer-Aided
Intelligent
Environmental Data
Engineering
Advanced Tools,
Technologies, and
Applications
28th International
Conference on Very
Large Databases
(VLDB)

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Python for R Users

Analyzing Social
Media Networks
with NodeXL
offers
backgrounds in
information
studies,
computer
science, and
sociology. This
book is divided
into three
parts: analyzing

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social media,
NodeXL tutorial,
and social-media
network analysis
case studies.

Part I provides
background in
the history and
concepts of
social media and
social networks.
Also included
here is social
network

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analysis, which flows from measuring, to mapping, and modeling collections of connections. The next part focuses on the detailed operation of the free and open-source NodeXL extension of

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Microsoft Excel, which is used in all exercises throughout this book. In the final part, each chapter presents one form of social media, such as e-mail, Twitter, Facebook, Flickr, and Youtube. In

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addition, there are descriptions of each system, the nature of networks when people interact, and types of analysis for identifying people, documents, groups, and events. Walks you through

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NodeXL, while explaining the theory and development behind each step, providing takeaways that can apply to any SNA Demonstrates how visual analytics research can be applied to SNA tools for the

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mass market
Includes case
studies from
researchers who
use NodeXL on
popular networks
like email,
Facebook,
Twitter, and
wikis Download
companion
materials and
resources at <https://nodexl.code>

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plex.com/documentation

Describes the features and functions of Apache Hive, the data

infrastructure for Hadoop.

Interfacing with C is about interfacing personal computers using

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C. Anyone who is interested in ports, transducer interfacing, analog to digital conversion, convolution, filters or digital/analog conversion will benefit from reading

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Interfacing with
C. Students will
also find this a
practical
introduction to
real-time
programming with
a generous
collection of
tried and tested
programs. The
pace of the book
is such that the
reader is

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encouraged to run the programs and experiment with C. The principles precede the applications in most cases in an attempt to provide genuine understanding and encourage further development.

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Readers will gain much from the hands-on experience the authors' approach provides, an approach designed to enable readers to climb steep learning curves with the minimum amount of

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assistance. The many programs included in the text provide the essential hands-on experience. Some of the programs inevitably become rather lengthy, so the source code used is available as a free download

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from the Newnes website. The aim of the book, however, is to give the reader enough confidence to rewrite and improve these programs. In the second edition Mike James has thoroughly updated all

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aspects relating to software, operating systems and graphical interfaces. He has also increased the scope of the book to include current forms of C++. Material on data acquisition has been

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thoroughly
updated and the
section on
peripherals
increased. A
disk containing
the source code
for the listings
in the book is
available from
'Electronics
World' magazine,
tel. 020 8722
6054. A

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practical and
painless way of
becoming an
expert C
programmer New
edition also
covers C++ and
the Windows
environment Get
up to speed with
the essential
maths needed for
C without having
to buy a

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university maths
text!

Create
innovative
informatics
solutions with
TIBCO Spotfire
Key Features Get
to grips with a
variety of TIBCO
Spotfire
features to
create
professional

Access Free Spotfire Tutorial

applications Use
different data
and
visualization
techniques to
build
interactive
analyses.
Simplify BI
processes and
understand data
analysis and
visualization
Book Description

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The need for agile business intelligence (BI) is growing daily, and TIBCO Spotfire® combines self-service features with essential enterprise governance and scaling capabilities to provide best-

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practice
analytics
solutions.
Spotfire is easy
and intuitive to
use and is a
rewarding
environment for
all BI users and
analytics
developers.
Starting with
data and
visualization

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concepts, this book takes you on a journey through increasingly advanced topics to help you work toward becoming a professional analytics solution provider. Examples of analyzing real-

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world data are used to illustrate how to work with Spotfire. Once you've covered the AI-driven recommendations engine, you'll move on to understanding Spotfire's rich suite of visualizations

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and when, why
and how you
should use each
of them. In
later chapters,
you'll work with
location
analytics,
advanced
analytics using
TIBCO Enterprise
Runtime for R®,
how to decide
whether to use

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in-database or
in-memory
analytics, and
how to work with
streaming (live)
data in
Spotfire. You'll
also explore key
product
integrations
that
significantly
enhance
Spotfire's capab

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ilities. This book will enable you to exploit the advantages of the Spotfire server topology and learn how to make practical use of scheduling and routing rules. By the end of this book, you will have

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learned how to
build and use
powerful
analytics
dashboards and
applications,
perform spatial
analytics, and
be able to
administer your
Spotfire
environment
efficiently What
you will learn

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Work with
Spotfire on its
web, Cloud, PC,
Mac and mobile
clients Deploy
Spotfire's suite
of visualization
types
effectively and
intelligently
Build user-
friendly
analytics
frameworks and

Access Free Spotfire Tutorial

analytics
applications
Explore
Spotfire's
predictive
analytics
capabilities Use
Spotfire's
location
analytics
capabilities to
create
interactive
spatial analyses

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Write IronPython
scripts with the
Spotfire API
Learn the
different ways
Spotfire can be
deployed and
administered Who
this book is for
If you are a
business
intelligence or
data
professional,

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this book will give you a solid grounding in the use of TIBCO Spotfire. This book requires no prior knowledge of Spotfire or any basic data and visualization concepts.

TIBCO Spotfire -
A Comprehensive

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Primer

The Knowledge

Medium

Proceedings 2002

VLDB Conference

Data

Visualization

Made Simple

A Data Science

Approach

Theories and

Applications

Creating

Universes with

Access Free Spotfire Tutorial

SAP

BusinessObjects

(Selected) --

**Plenary Lecures:
New Catalysts for
Controlled/Living
Atom Transfer
Radical
Polymerization
(ATRP; Catalysis
and Applications of
Gold Nanoparticles
-- Oral
Presentations:**

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***Ionic Liquids as
New Solvents and
Catalysis for
Petrochemical and
Refining
Processes; High
Throughput
Experiment on the
Investigation of
Oxidation Catalysts
with Gas Sensor
System -- Poster
Presentations:
Development of a***

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***Low-Temperature
Dioxin
Decomposition
Catalyst; Studies
on Unique
Properties of
Polyolefins
Prepared with
Metallocene
Catalyst Systems --
Index.***

***"This book focuses
on Hybrid Learning
as a way to***

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compensate for the shortcomings of traditional face-to-face teaching, distance learning, and technology-mediated learning"--Provide
d by publisher.
Optimize Your Chemical Database Design and Use of Relational Databases in

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Chemistry helps programmers and users improve their ability to search and manipulate chemical structures and information, especially when using chemical database "cartridges". It illustrates how the

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organizational, data integrity, and extensibility properties of relational databases are best utilized when working with chemical information. The author facilitates an understanding of existing relational database

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schemas and shows how to design new schemas that contain tables of data and chemical structures. By using database extension cartridges, he provides methods to properly store and search chemical

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structures. He explains how to download and install a fully functioning database using free, open-source chemical extension cartridges within PostgreSQL. The author also discusses how to access a database on a computer

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***network using both
new and existing
applications.***

***Through examples
of good database
design, this book
shows you that
relational
databases are the
best way to store,
search, and
operate on
chemical
information.***

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If you can make a mark on a piece of paper you can draw! If you can write your name... you can draw! Millions of people watch Shoo Rayner's Drawing Tutorials on his award-winning YouTube channel - ShooRaynerDrawing. learn to draw

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with Shoo Rayner too! In this book, Shoo shows you how, with a little practice, you can learn the basic shapes and techniques of drawing and soon be creating your own, fabulous works of art. Everyone can draw. That means

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you too!

***Interfacing with C
Graphics in Life
Sciences***

***Analyzing Social
Media Networks
with NodeXL***

***Mastering Machine
Learning with
Python in Six Steps
The Definitive
Guide***

***Essential Tools for
Working with Data***

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Design and Use of Relational Databases in Chemistry

*The remarkable
progress in
algorithms for
machine and deep
learning have
opened the doors
to new
opportunities, and*

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some dark possibilities. However, a bright future awaits those who build on their working methods by including HCAI strategies of design and testing. As many technology

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companies and thought leaders have argued, the goal is not to replace people, but to empower them by making design choices that give humans control over technology. In Human-Centered

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AI, Professor Ben Shneiderman offers an optimistic realist's guide to how artificial intelligence can be used to augment and enhance humans' lives. This project bridges the gap

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between ethical considerations and practical realities to offer a road map for successful, reliable systems. Digital cameras, communications services, and navigation apps are just the

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beginning.
Shneiderman
shows how future
applications will
support health
and wellness,
improve
education,
accelerate
business, and
connect people in
reliable, safe, and

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*trustworthy ways
that respect
human values,
rights, justice, and
dignity.*

*This volume
contains 59
papers presented
at ICTIS 2015:
International
Conference on
Information and*

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*Communication
Technology for
Intelligent
Systems. The
conference was
held during 28th
and 29th
November, 2015,
Ahmedabad, India
and organized
communally by
Venus*

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*International
College of
Technology,
Association of
Computer
Machinery,
Ahmedabad
Chapter and
Supported by
Computer Society
of India Division IV
- Communication*

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*and Division V -
Education and
Research. This
volume contains
papers mainly
focused on ICT for
Computation,
Algorithms and
Data Analytics etc.
Like the best-
selling first two
editions, A*

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*Handbook of
Statistical
Analyses using R,
Third Edition
provides an up-to-
date guide to data
analysis using the
R system for
statistical
computing. The
book explains how
to conduct a*

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*range of statistical
analyses, from
simple inference
to recursive
partitioning to
cluster
analysis. New to
the Third Edition
Explore
fundamental to
advanced Python
3 topics in six*

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steps, all designed to make you a worthy practitioner. This updated version's approach is based on the "six degrees of separation" theory, which states that everyone and

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everything is a maximum of six steps away and presents each topic in two parts: theoretical concepts and practical implementation using suitable Python 3 packages. You'll

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*start with the
fundamentals of
Python 3
programming
language,
machine learning
history, evolution,
and the system
development
frameworks. Key
data
mining/analysis*

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concepts, such as exploratory analysis, feature dimension reduction, regressions, time series forecasting and their efficient implementation in Scikit-learn are covered as well. You'll also learn

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commonly used model diagnostic and tuning techniques. These include optimal probability cutoff point for class creation, variance, bias, bagging, boosting, ensemble voting, grid search,

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*random search,
Bayesian
optimization, and
the noise
reduction
technique for IoT
data. Finally,
you'll review
advanced text
mining
techniques,
recommender*

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systems, neural networks, deep learning, reinforcement learning techniques and their implementation. All the code presented in the book will be available in the

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form of iPython notebooks to enable you to try out these examples and extend them to your advantage. What You'll Learn Understand machine learning development and frameworks Assess

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*model diagnosis
and tuning in
machine
learning*Examine
*text mining,
natural language
processing (NLP),
and recommender
systems*Review
*reinforcement
learning and CNN*
Who This Book Is

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For Python developers, data engineers, and machine learning engineers looking to expand their knowledge or career into machine learning area.

*Protein Analysis
and Purification*

Page 86/218

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*Practical Text
Mining and
Statistical Analysis
for Non-structured
Text Data
Applications
Practical Statistics
for Data Scientists
Fundamentals of
Stream Processing
R Markdown
50 Essential*

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*Concepts
Proceedings of
First International
Conference on
Information and
Communication
Technology for
Intelligent
Systems: Volume
1*

The world contains an
unimaginably vast

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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, combat crime and so on.

Managed well, the textual data can be

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used to unlock new sources of economic value, provide fresh insights into science and hold governments to account. 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 search will increase dramatically. This comprehensive professional reference brings together all the information, tools and methods a professional will need to efficiently use text mining applications and statistical analysis. The

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Handbook of Practical
Text Mining and
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

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an in-depth
examination of core
text mining and link
detection tools,
methods and
operations, the book
examines advanced
preprocessing
techniques,
knowledge
representation
considerations, and
visualization

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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 corporate, finance, business intelligence, genomics research, and

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counterterrorism activities. -Extensive case studies, most in a tutorial format, allow the reader to 'click through' the example using a software program, thus learning to conduct text mining analyses in the most rapid manner of learning possible

-Numerous examples,

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tutorials, power points
and datasets available
via companion

website on

Elsevierdirect.com

-Glossary of text
mining terms provided
in the appendix

If you are a business
user or data

professional, this book
will give you a solid
grounding in the use

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of TIBCO Spotfire.
This book assumes no
prior knowledge of
Spotfire or even basic
data and visualization
concepts.

This book is devoted
to the graphics of
patient data: good
graphs enabling
straight-forward and
intuitive
interpretation,

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efficient creation, and straightforward interpretation. We focus on easy access to graphics of patient data: the intention is to show a large variety of graphs for different phases of drug development, together with a description of what the graph shows, what type of data it

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uses, and what options there are. The main aim is to provide inspiration in form of a “graphics cookbook.” Many graphs provide creative ideas about what can be done. The book is not intended to be technical. It introduces general principles of good

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visualization to make readers understand the concepts, but the main focus is on the creativity and usefulness: readers are enabled to browse through the book to get ideas of how their own data can be analyzed graphically. For additional information visit

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Editor's companion

website: <http://www.elmo.ch/doc/life-science-graphics/>

Data Visualization

Made Simple is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today's information-

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rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners in almost every field a coherent way to share findings from original research, big data, learning analytics, and more. In nine appealing chapters,

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the book: examines the role of data graphics in decision-making, sharing information, sparking discussions, and inspiring future research; scrutinizes data graphics, deliberates on the messages they convey, and looks at options for design

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visualization; and includes cases and interviews to provide a contemporary view of how data graphics are used by professionals across industries Both novices and seasoned designers in education, business, and other areas can use this book's

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effective, linear
process to develop
data visualization
literacy and promote
exploratory, inquiry-
based approaches to
visualization
problems.

The Unified Star
Schema: An Agile and
Resilient Approach to
Data Warehouse and
Analytics Design

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Artificial Intelligence
in Data Mining
Everyone Can Draw
A Practical
Implementation Guide
to Predictive Data
Analytics Using
Python
GEN.

Python Data Science
Handbook

Kpi Checklists

How one goes

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about analyzing proteins is a constantly evolving field that is no longer solely the domain of the protein biochemist. Investigators from diverse disciplines find themselves

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with the unanticipated task of identifying and analyzing a protein and studying its physical properties and biochemical interactions. In most cases, the ultimate

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goal remains understanding the role(s) that the target protein is playing in cellular physiology. It was my intention that this manual would make the initial steps

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in the
discovery
process less
time consuming
and less
intimidating.

This book is
not meant to be
read from cover
to cover. The
expanded Table
of Contents and
the index

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should help
locate what you
are seeking. My
aim was to
provide
practically
oriented
information
that will
assist the
experimentalist
in benchtop
problem

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solving. The appendices are filled with diverse information gleaned from catalogs, handbooks, and manuals that are presented in a distilled fashion designed to

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save trips to
the library and
calls to
technical
service represe
ntatives. The
user is
encouraged to
expand on the
tables and
charts to fit
individual
experimental

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situations.

This second edition pays homage to the computer explosion and the various genome projects that have revolutionized how benchtop scientific research is

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performed.
Bioinformatics
and In silico
science are
here to stay.
However, the
second edition
still includes
recipes for
preparing
buffers and
methods for
lysing cells.

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Proceedings of
the 28th Annual
International
Conference on
Very Large Data
Bases held in
Hong Kong,
China on August
20-23, 2002.
Organized by
the VLDB
Endowment, VLDB
is the premier

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international
conference on
database
technology.
Sensor data
fusion is the
process of
combining error-
prone,
heterogeneous,
incomplete, and
ambiguous data
to gather a

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higher level of situational awareness. In principle, all living creatures are fusing information from their complementary senses to coordinate their actions

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and to detect
and localize
danger. In
sensor data
fusion, this
process is
transferred to
electronic
systems, which
rely on some
"awareness" of
what is
happening in

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certain areas of interest. By means of probability theory and statistics, it is possible to model the relationship between the state space and the sensor data. The

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number of ingredients of the resulting Kalman filter is limited, but its applications are not.

Statistical methods are a key part of of data science, yet very few

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data scientists
have any formal
statistics
training.

Courses and
books on basic
statistics
rarely cover
the topic from
a data science
perspective.

This practical
guide explains

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how to apply various statistical methods to data science, tells you how to avoid their misuse, and gives you advice on what's important and what's not.

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Many data science resources incorporate statistical methods but lack a deeper statistical perspective. If you're familiar with the R programming language, and

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have some
exposure to
statistics,
this quick
reference
bridges the gap
in an
accessible,
readable
format. With
this book,
you'll learn:
Why exploratory

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data analysis
is a key
preliminary
step in data
science How
random sampling
can reduce bias
and yield a
higher quality
dataset, even
with big data
How the
principles of

Access Free Spotfire Tutorial

experimental
design yield
definitive
answers to
questions How
to use
regression to
estimate
outcomes and
detect
anomalies Key
classification
techniques for

Access Free Spotfire Tutorial

predicting
which
categories a
record belongs
to Statistical
machine
learning
methods that
“learn” from
data
Unsupervised
learning
methods for

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extracting
meaning from
unlabeled data
Insights from a
Connected World
Efficient R
Programming
Application
Design,
Systems, and
Analytics
A Picture is
Worth a

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Thousand Tables
Applied Time
Series Analysis
Research
Methods for
Cyber Security
Genetic
Engineering
News
SAP
BusinessObjects
Dashboards is a
leading Business

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Intelligence and reporting tool that provides you with a real-time understanding of your business with agile visualizations. Starting with an introduction to Dashboards and its benefits, the book slowly moves on to explain the dashboard creation

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process. After this, you will learn how to add charts, single-value components, maps, selectors, and other third-party plugins to the existing dashboards. Furthermore, it shares many best practices and will also help you to

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connect your dashboard to real data by establishing a data connection to a data source. You can also explore more about mobile BI and learn how to create dashboards for mobile devices. By the end of the book, you will be able to prepare,

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plan, and design interactive dashboards based on your business requirements using this cutting-edge BI tool.

Learn how to gain insights from your data as well as machine learning and become a presentation pro who can create

Access Free Spotfire Tutorial

interactive
dashboards Key
Features Enhance
your presentation
skills by
implementing
engaging data
storytelling and
visualization
techniques Learn
the basics of
machine learning
and easily apply
machine learning

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models to your
dataImprove
productivity by
automating your
data
processesBook
Description Data
Analytics Made
Easy is an
accessible
beginner's guide
for anyone working
with data. The
book interweaves

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four key elements:
Data visualizations
and storytelling –
Tired of people not
listening to you
and ignoring your
results? Don't
worry; chapters 7
and 8 show you
how to enhance
your presentations
and engage with
your managers and
co-workers. Learn

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to create focused content with a well-structured story behind it to captivate your audience.

Automating your data workflows – Improve your productivity by automating your data analysis. This book introduces you to the open-

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source platform, KNIME Analytics Platform. You'll see how to use this no-code and free-to-use software to create a KNIME workflow of your data processes just by clicking and dragging components.

Machine learning -
Data Analytics

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Made Easy
describes popular
machine learning
approaches in a
simplified and
visual way before
implementing
these machine
learning models
using KNIME. You'll
not only be able to
understand data
scientists' machine
learning models;

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you'll be able to challenge them and build your own. Creating interactive dashboards - Follow the book's simple methodology to create professional-looking dashboards using Microsoft Power BI, giving users the capability

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to slice and dice
data and drill down
into the results.

What you will
learnUnderstand
the potential of
data and its impact
on your
businessImport,
clean, transform,
combine data
feeds, and
automate your
processesInfluence

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business decisions
by learning to
create engaging
presentationsBuild
real-world models
to improve
profitability, create
customer
segmentation,
automate and
improve data
reporting, and
moreCreate
professional-

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looking and
business-centric
visuals and
dashboardsOpen
the lid on the black
box of AI and learn
about and
implement
supervised and
unsupervised
machine learning
modelsWho this
book is for This
book is for

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beginners who work with data and those who need to know how to interpret their business/customer data. The book also covers the high-level concepts of data workflows, machine learning, data storytelling, and visualizations, which are useful for

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managers. No previous math, statistics, or computer science knowledge is required.

TIBCO Spotfire: A Comprehensive Primer Building enterprise-grade data analytics and visualization solutions, 2nd Edition Packt

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Publishing Ltd
Master the most
agile and resilient
design for building
analytics
applications: the
Unified Star
Schema (USS)
approach. The USS
has many benefits
over traditional
dimensional
modeling. Witness
the power of the

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USS as a single star schema that serves as a foundation for all present and future business requirements of your organization. Data warehouse legend Bill Inmon and business intelligence innovator, Francesco Puppini, explain step-by-

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step why the Unified Star Schema is the recommended approach for business intelligence designs today, and show through many examples how to build and use this new solution. This book contains two parts.

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Part I, Architecture, explains the benefits of data marts and data warehouses, covering how organizations progressed to their current state of analytics, and to the challenges that result from current business intelligence

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architectures.

Chapter 1 covers the drivers behind and the characteristics of the data warehouse and data mart. Chapter 2 introduces dimensional modeling concepts, including fact tables, dimensions, star joins, and

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snowflakes.

Chapter 3 recalls the evolution of the data mart. Chapter 4 explains Extract, Transform, and Load (ETL), and the value ETL brings to reporting. Chapter 5 explores the Integrated Data Mart Approach, and Chapter 6 explains how to monitor this

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environment.

Chapter 7 describes the different types of metadata within the data warehouse environment.

Chapter 8 progresses through the evolution to our current modern data warehouse environment. Part

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II, the Unified Star Schema, covers the Unified Star Schema (USS) approach and how it solves the challenges introduced in Part I. There are eight chapters within Part II: · Chapter 9, Introduction to the Unified Star Schema: Learn

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about its architecture and use cases, as well as how the USS approach differs from the traditional approach. ·

Chapter 10, Loss of Data: Learn about the loss of data and the USS Bridge. Understand that the USS approach does not

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create any join,
and for this reason,
it has no loss of
data. · Chapter 11,
The Fan Trap: Get
introduced to the
Oriented Data
Model convention,
and learn the
dangers of a fan
trap through an
example.

Differentiate join
and association,

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and realize that an “in-memory association” is the preferred solution to the fan trap. · Chapter 12, The Chasm Trap: Become familiar with the Cartesian product, and then follow along with an example based on LinkedIn, which illustrates that a

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chasm trap produces unwanted duplicates. See that the USS Bridge is based on a union, which does not create any duplicates. · Chapter 13, Multi-Fact Queries: Distinguish between multiple facts “with direct connection” versus

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multiple facts “with no direct connection”.

Explore how BI tools are capable of building aggregated virtual rows. · Chapter 14, Loops: Learn more about loops and five traditional techniques to solve them. Follow along with an

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implementation,
which will illustrate
the solution based
on the USS
approach. ·

Chapter 15, Non-
Conformed
Granularities:

Learn about non-
conformed
granularities, and
learn that the
Unified Star
Schema introduces

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a solution called
“re-normalization”.

· Chapter 16,
Northwind Case
Study. Witness how
easy it is to detect
the pitfalls of
Northwind using
the ODM
convention. Follow
along with an
implementation of
the USS approach
on the Northwind

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database with
various BI tools.

TIBCO Spotfire: A
Comprehensive
Primer

Designing Effective
Computer-based
Learning

Environments

Programming Hive

Introduction and
Implementations of
the Kalman Filter

Data Analytics

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Made Easy
A Handbook of
Statistical Analyses
using R
Benchtop
Techniques

KPI Checklists is for people who have the task of creating new KPIs for their organisation, have been asked to improve or enhance existing KPIs or need help

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implementing a measurement system. Using brief explanations and practical checklists, this book will help you deliver meaningful measures that work, create reports that support decision-making and deploy the tools you need to engage the rest of your organisation.

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Annotation This proceedings of the July 2002 conference presents new developments in modeling tools for rendering abstract concepts. The 116 papers are arranged into sessions, such as collaborative information visualization environments,

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animation, curves, the semantic web, and applications in geography and medicine. Topics include a visual query language for large spatial databases, cooperative robot teleoperation through virtual reality interfaces, visualizing temporal features in large-scale microarray

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time series data, and using bibliographic maps to analyze term distribution in scientific papers. The CD-ROM is an electronic version of the book. No subject index. Annotation copyrighted by Book News, Inc., Portland, OR.

This book is aimed at both new developers as

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well as experienced developers. If you are a new SAP BusinessObjects Universe developer who is looking for a step-by-step guide supported with real-life examples and illustrated diagrams, then this book is for you. If you are a seasoned BusinessObjects

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Universe developer who is looking for a fast way to map your old experience in Universe designer to the newer Information Design Tool, then this book is for you as well. Healthcare systems have been in a state of flux for a number of years now due to increasing digitalization.

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Medicine itself is also facing new challenges, and how to maximize the possibilities of artificial intelligence, whether digitalization can help to strengthen patient orientation, and dealing with the issue of data quality and completeness are all issues which require attention, creativity and

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research. This book presents the proceedings of the 64th annual conference of the German Association for Medical Informatics, Biometry and Epidemiology (GMDS 2019), held in Dortmund, Germany, from 8 - 11 September 2019. The theme of this year's conference is

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Shaping Change – Creative Solutions for Innovative Medicine, and the papers presented here focus on active participation in shaping change while ensuring that good scientific practice, evidence and regulation are not lost as a result of innovation. The book is divided into 8

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sections: biostatistics;
healthcare IT;
interoperability -
standards,
classification,
terminology;
knowledge engineering
and decision support;
medical bioinformatics
and systems biology;
patient centered care;
research
infrastructure; and
sociotechnical systems

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/ usability and evaluation of healthcare IT. The book will be of interest to all those facing the challenges posed by the ongoing revolution in medicine and healthcare.

German Medical Data Sciences: Shaping Change - Creative Solutions for Innovative Medicine

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Analyze and present data to make informed decisions without writing any code

A Practical Guide to Curve Fitting

Handbook of Research on Hybrid Learning Models: Advanced Tools, Technologies, and Applications

A Practical Guide to Smarter Programming Science and

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Technology in
Catalysis
Insights into Becoming
Visual

Most biologists use
nonlinear
regression more
than any other
statistical
technique, but
there are very few
places to learn

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about curve-fitting. This book, by the author of the very successful *Intuitive Biostatistics*, addresses this relatively focused need of an extraordinarily broad range of scientists.

Virtually any
Page 177/218

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random process
developing
chronologically can
be viewed as a
time series. In
economics, closing
prices of stocks,
the cost of money,
the jobless rate,
and retail sales are
just a few
examples of many.

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Developed from course notes and extensively classroom-tested, Applied Time Series Analysis includes examples across a variety of fields, develops theory, and provides software to address time

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series problems in a broad spectrum of fields. The authors organize the information in such a format that graduate students in applied science, statistics, and economics can satisfactorily navigate their way

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through the book while maintaining mathematical rigor. One of the unique features of Applied Time Series Analysis is the associated software, GW-WINKS, designed to help students easily generate

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realizations from models and explore the associated model and data characteristics.

The text explores many important new methodologies that have developed in time series, such

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as ARCH and
GARCH
processes, time
varying
frequencies (TVF),
wavelets, and
more. Other
programs (some
written in R and
some requiring S-
plus) are available
on an associated

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website for performing computations related to the material in the final four chapters.

Research Methods for Cyber Security teaches scientific methods for generating impactful

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knowledge,
validating theories,
and adding critical
rigor to the cyber
security field. This
book shows how
to develop a
research plan,
beginning by
starting research
with a question,
then offers an

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introduction to the broad range of useful research methods for cyber security research: observational, mathematical, experimental, and applied. Each research method chapter concludes with recommended

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outlines and suggested templates for submission to peer reviewed venues.

This book concludes with information on cross-cutting issues within cyber security research.

Cyber security

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research contends with numerous unique issues, such as an extremely fast environment evolution, adversarial behavior, and the merging of natural and social science phenomena.

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Research Methods for Cyber Security addresses these concerns and much more by teaching readers not only the process of science in the context of cyber security research, but providing

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assistance in
execution of
research as well.
Presents research
methods from a
cyber security
science
perspective
Catalyzes the
rigorous research
necessary to
propel the cyber

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security field
forward Provides a
guided method
selection for the
type of research
being conducted,
presented in the
context of real-
world usage
Artificial
Intelligence in
Data Mining:

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Theories and Applications offers a comprehensive introduction to data mining theories, relevant AI techniques, and their many real-world applications. This book is written by experienced

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engineers for
engineers,
biomedical
engineers, and
researchers in
neural networks,
as well as
computer
scientists with an
interest in the
area. Provides
coverage of the

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fundamentals of
Artificial
Intelligence as
applied to data
mining, including
computational
intelligence and
unsupervised
learning methods
for data clustering
Presents coverage
of key topics such

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as heuristic
methods for data
clustering, deep
learning methods
for data
classification, and
neural networks
Includes case
studies and real-
world applications
of AI techniques in
data mining, for

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improved
outcomes in
clinical diagnosis,
satellite data
extraction,
agriculture,
security and
defense

Proceedings
Sixth International
Conference on
Information

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Visualisation :
10-12 July 2002,
London, England
Proceedings of the
64th Annual
Meeting of the
German
Association of
Medical
Informatics,
Biometry and
Epidemiology

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(gmnds e.V.) 2019
in Dortmund,
Germany – GMDS
2019

Building enterprise-
grade data
analytics and
visualization
solutions, 2nd
Edition

Learning SAP
BusinessObjects

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Dashboards

R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can

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*easily create
reproducible data
analysis reports,
presentations,
dashboards,
interactive
applications,
books,
dissertations,
websites, and
journal articles,
while enjoying the
simplicity of
Markdown and the*

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*great power of R
and other
languages. In this
book, you will learn
Basics: Syntax of
Markdown and R
code chunks, how
to generate figures
and tables, and
how to use other
computing
languages Built-in
output formats of R
Markdown: PDF/HT*

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*ML/Word/RTF/Mark
down documents
and ioslides/Slidy/B
eamer/PowerPoint
presentations
Extensions and
applications:
Dashboards, Tufte
handouts,
xaringan/reveal.js
presentations,
websites, books,
journal articles,
and interactive*

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*tutorials Advanced
topics:*

*Parameterized
reports, HTML
widgets, document
templates, custom
output formats,
and Shiny*

*documents. Yihui
Xie is a software
engineer at*

*RStudio. He has
authored and co-
authored several R*

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packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books

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and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem

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*including
rmarkdown,
flexdashboard,
learnr, and radix.
Garrett Grolemond
is the co-author of
R for Data Science
and author of
Hands-On
Programming with
R. He wrote the
lubridate R
package and works
for RStudio as an*

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*advocate who
trains engineers to
do data science
with R and the
Tidyverse.*

*There are many
excellent R
resources for
visualization, data
science, and
package
development.*

*Hundreds of
scattered*

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vignettes, web pages, and forums explain how to use R in particular domains. But little has been written on how to simply make R work effectively—until now. This hands-on book teaches novices and experienced R users how to write

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efficient R code. Drawing on years of experience teaching R courses, authors Colin Gillespie and Robin Lovelace provide practical advice on a range of topics—from optimizing the set-up of RStudio to leveraging C++—that make

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this book a useful addition to any R user's bookshelf. Academics, business users, and programmers from a wide range of backgrounds stand to benefit from the guidance in Efficient R Programming. Get advice for setting up an R

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*programming
environment
Explore general
programming
concepts and R
coding techniques
Understand the
ingredients of an
efficient R workflow
Learn how to
efficiently read and
write data in R Dive
into data
carpentry—the*

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*vital skill for
cleaning raw data
Optimize your code
with profiling,
standard tricks,
and other methods
Determine your
hardware
capabilities for
handling R
computation
Maximize the
benefits of
collaborative R*

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*programming
Accelerate your
transition from R
hacker to R
programmer
For many
researchers,
Python is a first-
class tool mainly
because of its
libraries for storing,
manipulating, and
gaining insight
from data. Several*

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resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools.

Working scientists and data crunchers

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*familiar with
reading and writing
Python code will
find this
comprehensive
desk reference
ideal for tackling
day-to-day issues:
manipulating,
transforming, and
cleaning data;
visualizing different
types of data; and
using data to build*

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statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational

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*environments for
data scientists
using Python*

*NumPy: includes
the ndarray for
efficient storage
and manipulation
of dense data
arrays in Python*

*Pandas: features
the DataFrame for
efficient storage
and manipulation
of*

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*labeled/columnar data in Python
Matplotlib: includes capabilities for a flexible range of data visualizations
in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms*